

Subject: Re: Implementation of "160. Feature Launcher Service Specification" (Re: Java Developer and Platform Engineer (Re: Kentyou are hiring))
From: "Michael H. Siemacko" <mhsiemacko@78nylabs.com>
Date: 10/12/24, 03:08
Re: "Timothy Ward" <tim.ward@kentyou.com>
CC: Levent Gorgun <levent@kentyou.com>

Hi,

Next PR is awaiting Tim's review: <https://github.com/kentyou/feature-launcher-service/pull/26>

See comment <https://github.com/kentyou/feature-launcher-service/pull/26#issuecomment-240872877> for details, including screenshot.

This PR takes care of the "The Feature Launcher Command Line", as defined in section 160.4.2.4 of OSGI compendium specification (<https://github.com/kentyou/feature-launcher-service/issues/11>).

Implementation: com.kentyou.featurelaunchercli:FeatureLauncherCli

Relevant integration test: com.kentyou.featurelaunchercli:FeatureLauncherCliTest

This perhaps can also be useful for Tim's OSGI conference demo, as it's a self-contained command-line app at which feature JSONs can be "thrown" and everything else is taken care of underneath.

I will proceed to next items, as defined several days ago by Tim.

Regards,

Michael H. Siemacko
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On 10/5/24 05:43, Michael H. Siemacko wrote:

Hi,

Next PR is awaiting Tim's review: <https://github.com/kentyou/feature-launcher-service/pull/26>

There, I also posted info about most important issues encountered along with questions I have (<https://github.com/kentyou/feature-launcher-service/pull/26#issuecomment-239486121>).

It is issues which caused delay - I wanted to make sure everything you asked me to deliver by October 5th for the demo project is covered (**please see below for more on this**).

This PR takes care of the following:

- Set up for integration testing to work with OSG environment
- Implementation of 'The Feature Runtime Service', including:
 - Install a feature into the running OSGI framework instance based on the supplied feature JSON
 - Update a feature in the runtime based on the supplied feature JSON
 - Remove an installed feature
 - Inspecting the installed features

Plus: refactoring / fixes / improvements.

It covers the following issues:

- Install a feature into the running OSGI framework instance
<https://github.com/kentyou/feature-launcher-service/pull/26#issuecomment-239486121>
- Install a feature into the running OSGI framework instance based on the supplied feature JSON
<https://github.com/kentyou/feature-launcher-service/pull/26#issuecomment-239486121>
- Remove an installed feature
<https://github.com/kentyou/feature-launcher-service/pull/26#issuecomment-239486121>
- Update a feature in the runtime
<https://github.com/kentyou/feature-launcher-service/pull/26#issuecomment-239486121>
- Update a feature in the runtime based on the supplied feature JSON
<https://github.com/kentyou/feature-launcher-service/pull/26#issuecomment-239486121>
- Inspecting the installed features:
<https://github.com/kentyou/feature-launcher-service/pull/26#issuecomment-239486121>

Relevant integration tests are:

- com.kentyou.featurelauncherimpl.runtime.integration.FeatureRuntimeIntegrationTest
- com.kentyou.featurelauncherimpl.FeatureLauncherImplTest
- com.kentyou.featurelauncherimpl.repository.RemoteArtifactRepositoryImplTest
- com.kentyou.featurelauncherimpl.repository.LocalArtifactRepositoryImplTest

To recall, before I started on September 12th, Tim provided the following outline of functionalities needed for demo project:

- **Launching framework**
 - Launching a framework with a "simple" feature, containing bundles and configurations, with no start levels and no framework selection
 - Launching a framework with a feature which selects a framework implementation, with no start levels
- **Installing features at runtime**
 - Installing a "simple" feature, with no start levels
 - Installing a second feature with overlapping bundles
- **Updating features at runtime**
 - Simple update allowing version changes in some of the bundles
- **Removing features**
 - A simple uninstallation case

Now **everything from this list except for "version changes", is ready** perhaps that should be the next priority? I.e. inspecting installed bundles is implemented, but updates do not "bump" versions, so there is no "version changes" visible yet.

Please see my comment on this latest PR (<https://github.com/kentyou/feature-launcher-service/pull/26#issuecomment-239486121>) for possible list of next items and let me know which should take priority.

Regards,

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On 10/4/24 03:35, Michael H. Siemacko wrote:

Hi Tim,

I run into more issues during testing of Feature Runtime Service and most are resolved, but I need to defer pushing new PR until remaining issues are resolved. Hopefully by end of today (4:10) this should be ready to go.

"More" because all I other I solved, and these will get solved as well.

I apologize for delay, but I cannot push new PR until these are solved. I will send new update as soon as this is done, by end of today (4:10).

Regards,

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On 9/27/24 04:28, Michael H. Siemacko wrote:

Hi,

Next PR is awaiting Tim's review: <https://github.com/kentyou/feature-launcher-service/pull/25>. There, I also posted questions I have (<https://github.com/kentyou/feature-launcher-service/pull/25#issuecomment-247328180>).

Unfortunately, I run into several issues on "Tridi" for this 2nd round, hence the few hour delay (i.e. I am sending this summary to you now, instead of by end of Thursday, 26.09).

This PR takes care of the following:

- Implementation of 'ArtifactRepository' for remote repository type
- Providing Feature configuration to the system via Configuration Admin Service
- Selecting OSGI Framework implementation
- Providing Framework Launch Properties

... plus refactoring / fixes / improvements.

It covers the following issues:

- <https://github.com/kentyou/feature-launcher-service/pull/25#issuecomment-247328180>
- <https://github.com/kentyou/feature-launcher-service/pull/25#issuecomment-247328180>
- <https://github.com/kentyou/feature-launcher-service/pull/25#issuecomment-247328180>
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- <https://github.com/kentyou/feature-launcher-service/pull/25#issuecomment-247328180>
- <https://github.com/kentyou/feature-launcher-service/pull/25#issuecomment-247328180>

Relevant integration tests are:

- com.kentyou.featurelauncherimpl.FeatureLauncherImplTest
- com.kentyou.featurelauncherimpl.repository.RemoteArtifactRepositoryImplTest
- com.kentyou.featurelauncherimpl.repository.LocalArtifactRepositoryImplTest

I will proceed now to take care of "Feature Runtime Service" related issues, unless you prefer other items should be taken care of.

As previously, let's use PR review (<https://github.com/kentyou/feature-launcher-service/pull/25>) to address these items, including questions and comments.

Regards,

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On 9/20/24 15:27, Timothy Ward wrote:

Hi Michael,

Thank you for this. I have reviewed the pull request, and other than some minor changes I've proposed it looks great.

Your proposed next steps look fine to me. Speak with you on Monday.

Tim

Sent from my iPhone

On 19 Sep 2024, at 22:52, Michael H. Siemacko <mhsiemacko@78nylabs.com> wrote:

Hi,

First PR is awaiting Tim's review: <https://github.com/kentyou/feature-launcher-service/pull/24>

It takes care of the following:

- Implementation of 'ArtifactRepository' for local repository type
- Launching default framework instance based on the supplied feature with local artifact repository
- Parse JSON representation of feature definition
- Locate default OSGI framework implementation
- Create OSGI Framework instance
- Install bundles in OSGI Framework instance
- Start OSGI Framework instance
- Cleanup after failure
- Throw LaunchException if an error occurs creating the framework, or locating and installing any of the feature bundles
- Register Artifact Repository Factory and any necessary module metadata with the Java ServiceLoader API
- Register Feature Launcher Service and any necessary module metadata with the Java ServiceLoader API
- Project skeleton
- Use Maven for build automation

... plus, stuff like logging, framework / bundle event listeners, shutdown hook, and more.

I.e. it covers issues:

- <https://github.com/kentyou/feature-launcher-service/pull/24#issuecomment-239486121>
- <https://github.com/kentyou/feature-launcher-service/pull/24#issuecomment-239486121>
- <https://github.com/kentyou/feature-launcher-service/pull/24#issuecomment-239486121>

... plus non-functional requirements and other one-time tasks required at this stage.

If you wish to run it, relevant integration tests are:

- com.kentyou.featurelauncherimpl.repository.LocalArtifactRepositoryImplTest
- com.kentyou.featurelauncherimpl.FeatureLauncherImplTest

I will proceed now to the following:

- <https://github.com/kevinvo/feature-launcher-service/issues/2>
- <https://github.com/kevinvo/feature-launcher-service/issues/3>
- <https://github.com/kevinvo/feature-launcher-service/issues/4>
- <https://github.com/kevinvo/feature-launcher-service/issues/5>

Please let me know if you have any comments and I will defer with questions I have until our Monday meeting.

Regards,

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On 9/18/24 17:52, Michael H. Siemacko wrote:

Hi Tim,

Yes, I saw the updates to issues1 (<https://github.com/kevinvo/feature-launcher-service/issues/1>) already created, as well as the new issue you added for command line client. I am not working on those yet; I may have some questions once I start working on those.

RE: Status update - this moved forward since my most recent update sent on Monday (16:09) and my goal is to provide first commit some time tomorrow (19:09) along with new status update. I started officially on Thursday (12:09), so my goal is to provide new commit containing tested functionalities along with status update each Thursday / once per week at least.

RE: weekly status call - I'd prefer on Mondays, some time in the afternoon hours, if that is OK with you e.g. any time after 2 PM ?

Regards,

—
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On 9/18/24 12:26, Timothy Ward wrote:

Hi Michael,

Hopefully you saw my updates to the issues in the repository - please do get back to me if you have any questions. I would also like to set up a regular weekly status call with you so we can keep track of how things are going. Is there a good time slot for you on a Thursday? If not then a Monday afternoon?

All the best,

Tim

On 16 Sep 2024, at 09:15, Timothy Ward tim.ward@kevinvo.com wrote:

Hi Michael,

Thank you for this, I've looked through the issues and it seems to be fairly comprehensive. I do have a few updates to make based on the final review of the draft which happened last Wednesday. I'll focus on making those updates today and flagging them in the relevant issues - they're all fairly minor changes, with the exception of one, which is an addition and I will create the issue for you once there's a section number

1) Tim mentions "simple feature" in the outline of specs for the demo project several times (see below) : please clarify what is understood by "simple" or provide example of such feature definitions, which should be supported.

I agree that this wasn't properly defined. To me a simple feature is one that contains bundles, configurations and possibly some variables, but definitely no extensions. It will also be relatively small (i.e. the total number of bundles and configurations should be less than 10).

2) Where should I commit code for "demo" project ? I.e. <https://github.com/kevinvo/feature-launcher-service> GitHub repository Tim created is for implementation of "160. Feature Launcher Service Specification" - shouldn't "demo" project code be stored in a separate repository ?

I would be happy for this to be in the same repository, and for it to evolve over time into an "examples" section

3) Is `org.osgi.test.cases.featurelauncher` being worked on / planned ? On `Design380` branch of `osgi` repo (<https://github.com/osgi/osgi/tree/Design380>) I found `org.osgi.test.cases.feature` but no `org.osgi.test.cases.featurelauncher` (not yet ?)

Work has not yet started on this, but it does need to happen. We're in discussions with Aries to see if they will write the test suite.

4) Aside from local (<https://github.com/kevinvo/feature-launcher-service>) and remote (<https://github.com/kevinvo/feature-launcher-service>) repository implementations provided via 'Artifact Repository Factory' should any other types of artifact repositories be implemented ?

This isn't needed at this stage, but others may be contributed to the implementation in the future.

All the best,

Tim

On 16 Sep 2024, at 00:34, Michael H. Siemacko mhsiemacko@maininfo.com wrote:

Hi,

Just a quick update:

- Having analysed "160. Feature Launcher Service Specification", in the issue tracker section of GitHub repository Tim created I created issue for each functionality identified (<https://github.com/kevinvo/feature-launcher-service/issues>) if there is anything missing, please let me know.
- I also created project skeleton (using Maven, as per Tim's request) and skeleton implementations of interfaces to be implemented and will proceed with actual implementation, starting with the following:
 - <https://github.com/kevinvo/feature-launcher-service/issues/4>
 - <https://github.com/kevinvo/feature-launcher-service/issues/5>
- Since, to the best of my knowledge, there is no other implementation of "159. Feature Service Specification" (https://en.wikipedia.org/wiki/OSGi_Specification#Implementations) then Apache Felix Implementation, I will use version 1.0.2 of this implementation (<https://central.sonatype.com/artifact/org.apache.felix/feature/1.0.2>)

Also, a few questions arose:

1) Tim mentions "simple feature" in the outline of specs for the demo project several times (see below) : please clarify what is understood by "simple" or provide example of such feature definitions, which should be supported.

2) Where should I commit code for "demo" project ? I.e. <https://github.com/kevinvo/feature-launcher-service> GitHub repository Tim created is for implementation of "160. Feature Launcher Service Specification" - shouldn't "demo" project code be stored in a separate repository ?

3) Is `org.osgi.test.cases.featurelauncher` being worked on / planned ? On `Design380` branch of `osgi` repo (<https://github.com/osgi/osgi/tree/Design380>) I found `org.osgi.test.cases.feature` but no `org.osgi.test.cases.featurelauncher` (not yet ?)

4) Aside from local (<https://github.com/kevinvo/feature-launcher-service>) and remote (<https://github.com/kevinvo/feature-launcher-service>) repository implementations provided via 'Artifact Repository Factory' should any other types of artifact repositories be implemented ?

Regards,

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On 9/24 15:57, Timothy Ward wrote:

Hi Michael,

The purpose of the demonstration would be to cover the high-level goals of the specification, specifically:

- Launching a framework web:
 - A "Simple" feature in it containing bundles and configurations (no start levels, no framework selection)
 - A feature which selects a framework implementation (still no start levels)
- Installing features at runtime
 - A "Simple" feature (no start levels)
 - A second feature with overlapping bundles
- Updating features at runtime
 - A simple update showing version changes in some of the bundles
- Removing features
 - A simple uninstallation case

I agree that most (possibly all) of this would be useful input for integration testing - especially as it avoids the more complex areas such as start level processing. We can discuss how best to create the demo content once you get started. I have created a private GitHub repository at <https://github.com/kevinvo/feature-launcher-service> and invited you to collaborate there. The current plan is that this repository will become public in the near future, and that the code will likely be contributed to Eclipse in the following months.

Our preference is to use a maven build, but do let us know if that is likely to slow things significantly.

All the best,

Tim

On 9 Sep 2024, at 14:26, Michael H. Siemacko mhsiemacko@maininfo.com wrote:

Hi Tim,

Thank you for this clarification.

Regarding demonstration: in order to properly test everything, in addition to integration tests, I would prepare a demo project anyway where this is utilized, to verify that everything works. Do you have any specific idea for such demo project - perhaps this (i.e. demo project) can be combined / re-used, for the purpose of properly testing this implementation ?

Regarding weekly sync: yes, I would report progress to you anyway, in written form, at least once per week, and we can have a call as well, as you prefer.

Aside from this demo project question, I do not have any other questions at this point, and even this is not a blocker so looks like we're ready to start.

Levent: please let me know if I should prepare contract then. Provided we finalize with these formalities by tomorrow, I could start tomorrow (Tuesday, September 10th) or the day after (11.09).

Regards,

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On 9/24 12:31, Timothy Ward wrote:

Hi Michael,

Just to confirm, we are looking for an implementation of chapter 160 - the Feature Launcher Service. This could rely on the existing implementation of chapter 159 from Felix (<https://github.com/apache/felix-deployer/feature>, <https://maven.apache.org/artifact/org.apache.felix/feature/>) or another suitable implementation. The implementation of chapter 160 will be made open source, so all dependencies must be compatible with Eclipse Licensing.

Levent will be dealing with the commercial points, but the timeline requires that we have something that can be demonstrated at the OSG Summit/OCC in mid October; so ideally we'll have something "working" (not necessarily bug free) by the 7th of October so that we have time to assemble a demonstration with it. If we are able to go ahead then I'm expecting that we'll have regular (weekly?) chats to update progress, as well as me being available to answer any questions that come up.

All the best,

Tim

On 4 Sep 2024, at 02:20, Michael H. Siemacko mhsiemacko@maininfo.com wrote:

Hi,

Thank you very much for reaching out. I understand it was August / holiday time, hence the silence after our call several weeks ago. I'm glad I can be of help!

Few questions to start with:

As in "4 "Feature Specification" (page 71 of <https://www.osgi.org/Specifications/docs/The%20OSGi%20Specification.pdf>) or "160. Feature Launcher Service Specification" (page 83 of <https://www.osgi.org/Specifications/docs/The%20OSGi%20Specification.pdf>) or both ? You mention "OSGi Feature Specification", then refer to "OSGi Feature Launcher Service Specification", so it is not clear.

As I find this area a bit complex, I would like to know if you have any specific idea for such demo project - perhaps this (i.e. demo project) can be combined / re-used, for the purpose of properly testing this implementation ?

If you mentioned you want to start ASAP but how soon you need this done ? I need to know as I have other things going on and could devote 20-30 hours per week, depending on how soon this needs to be done.

I could start early next week, provided we can get formalities taken care of until then.

Regards,

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On Tuesday, September 3rd, 2024 at 10:46 PM, Levent Gurgun levent@kevinvo.com wrote:

Hi Michael,

Thanks for your email and sorry for my late reply.

We have been discussing internally and we think that we may have an immediate opportunity of collaboration with you under a concrete implementation task.

It is about the implementation of the OSG Feature Specification

- The latest updates and comments for the Feature Launcher specification can be found at <https://github.com/kevinvo/feature-launcher-service>
- The actual API classes are available at <https://github.com/kevinvo/feature-launcher-service/tree/main/src/main/java/org/osgi/featurelauncher>
- A PDF copy of the specification draft can be found at <https://www.osgi.org/Specifications/docs/The%20OSGi%20Specification.pdf>

We would ideally like to start as soon as possible.

Should this be something you would be interested in helping us for?

We can discuss about details if you are interested.

All the best,

Levent

De: Michael H. Siemasko <mhsiemasko@7day4ids.com>
Date: mercredi, 14 août 2024 à 14:29
À: Timothy Ward <tim.ward@bluewin.ch>
Cc: Lewent G rgen <lewent@kentyou.com>; Thomas CALMANT <thomas.calmant@kentyou.com>
Objet: Re: java Developer and Platform Engineer (Re: Kentyou are hiring!)

Hello,

Thank you for the call yesterday.

If I can be of help, or if you have any additional questions - perhaps on more problem-solving level (please see <https://github.com/lewent/java-studies> for a lot of such examples, i.e. problems which had to be solved) - please do not hesitate to get in touch.

Regards,

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On 8/9/24 15:50, Timothy Ward wrote:

Hi Michael,

I'm glad that time works for you - I've send a Teams meeting invite for Tuesday at 1530. We don't normally use a live coding session for candidates with a GitHub portfolio demonstrating that they can code, so it will be a more general/theoretical interview. There's no need to prepare a development environment.

I look forward to speaking with you on Tuesday.

All the best,

Tim

On 8 Aug 2024, at 23:37, Michael H. Siemasko <mhsiemasko@7day4ids.com> wrote:

Hi Tim,

Thank you - I appreciate your interest in working together.

Tuesday (15.08) at 15:30 CET would work for me.

Should I prepare any specific environment for that meeting - e.g. you require a live coding session ? I am fresh off working for 3 years on a very similar position (<https://kentyou.com/2021/08/20/java-developer/>) as you may know, but there are a multitude of technologies this touches upon. So, if possible, please let me know if any up-front environment set up is required / areas you're most interested in.

Regards,

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On 8/9/24 17:55, Timothy Ward wrote:

Hi Michael,

I'm glad to hear that your first interview went well - the next interview will be more technical, and we should be able to fit it in next week.

Would you be free to meet (virtually) on Tuesday between 1030 and 1200, or 1530 to 1630? If Wednesday would be better then we could also make 1030-1200 then as well.

All the best,

Tim Ward

On 8 Aug 2024, at 15:15, Lewent G rgen <lewent@kentyou.com> wrote:

Thanks Michael for the call today and the information you sent.

Tim will contact you to setup another interview for early next week.

All the best,

Lewent

De: Michael H. Siemasko <mhsiemasko@7day4ids.com>
Date: jeudi, 8 août 2024 à 15:59
À: Lewent G rgen <lewent@kentyou.com>
Objet: Re: java Developer and Platform Engineer (Re: Kentyou are hiring!)

Hi Lewent,

Attached please find example of most recent contract, with Data in Motion - as explained, we extended twice, worked together for 3 years.

Regards,

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On Thursday, August 8th, 2024 at 3:24 PM, Michael H. Siemasko <mhsiemasko@7day4ids.com> wrote:

Hi Lewent,

Thank you for the call today. As agreed, I am attaching testimonial from Juergen Albert / Data in Motion, received after 1st year of working together.

I will follow up with examples of contracts - I need to redact them from first / remove some details which I cannot share from them first.

Regards,

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On Wednesday, August 7th, 2024 at 5:23 PM, Michael H. Siemasko <mhsiemasko@7day4ids.com> wrote:

Hi Lewent,

I confirm our meeting, scheduled for 2 PM CET tomorrow (8.08).

Thank you and see you tomorrow.

Regards,

--

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On Wednesday, August 7th, 2024 at 4:25 PM, Lewent G rgen <lewent@kentyou.com> wrote:

Hi Michael,

Thanks, I am sending a calendar invite for tomorrow 8th 2pm then.

You can let me know if it does not work for you.

Thanks and see you tomorrow!

Lewent

De: Michael H. Siemasko <mhsiemasko@7day4ids.com>
Date: mercredi, 7 août 2024 à 15:49
À: Lewent G rgen <lewent@kentyou.com>
Cc: Hello Kentyou <hello@kentyou.com>
Objet: Re: java Developer and Platform Engineer (Re: Kentyou are hiring!)

Dear Lewent,

Thank you very much for your reply. The, tomorrow (8.08) afternoon would suit me. On Friday (9.08), it be available in the afternoon as well.

What time in the afternoon would work for you ? I am available any time starting from 2:00 PM CET until late evening hours.

Regards,

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Michael H. Siemasko
Ideas Into Software LLC
Telegram: mhsiemasko
Email: mhsiemasko@7day4ids.com
WWW: <http://www.its-software.com>
GitHub: <https://github.com/mhsiemasko>
LinkedIn: <https://www.linkedin.com/in/mhsiemasko/>
Twitter: <https://twitter.com/mhsiemasko>

On Wednesday, August 7th, 2024 at 10:35 AM, Lewent G rgen <lewent@kentyou.com> wrote:

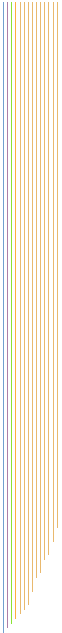
Dear Michael,

Thanks for your interest in our open position.

Would you be available for a quick interview tomorrow afternoon or on Friday late morning?

Best regards,

Lewent



Levent Güngen, PhD
Head & President
2024-02-20 17:21
levent.gungen@kerry.com

De : Michael H. Siemasko <mhs@kerry.com>
Date : vendredi, 2 août 2024 à 04:21
À : Hella Kertig <hella.kertig@kerry.com>
Objet : Java Developer and Platform Engineer (Re: Kerry you are hiring)

Hello,

This is in regards to "Java Developer and Platform Engineer" position you advertise on <https://www.kerry.com/2024/02/java-developer/>.

Attached please find my CV, in both chronological and functional form; also please see <https://www.kerry.com/2024/02/java-developer/> for sample of projects I've worked on.

I have extensive experience with OSS, in addition to matching most of the requirements listed for the position (<https://www.kerry.com/2024/02/java-developer/>); for details, please see attached CV.

If I can be of help, or if you have any questions, please do not hesitate to get in touch.

Regards,

—
Michael H. Siemasko
Ideas Into Software LLC
Telegram: [mhsiemasko](https://t.me/mhsiemasko)
Email: mhs@kerry.com
WWW: <https://www.kerry.com/>
GitHub: <https://github.com/mhsiemasko>
LinkedIn: <https://www.linkedin.com/company/mhsiemasko/>
Twitter: <https://twitter.com/mhsiemasko>
On 8/13/2023 18:58, Tina Ward wrote:
Hi all,

Are you (or someone you know) looking for a new role? Kerry you are currently looking for experienced Java developers, full stack engineers and data analysts.

Kerry you is a startup company aiming to turn cities into more sustainable, innovative, and citizen-centric environments to live and work in. We do this by enabling single access to new and existing IoT data sources, as well as through improved data processing, visualization and Machine Learning tools.

If you're interested then please do get in touch via our website at <https://www.kerry.com/2024/02/java-developer/> - we'd love to hear from you!

Best wishes,
Tina Ward
CTO Kerry you