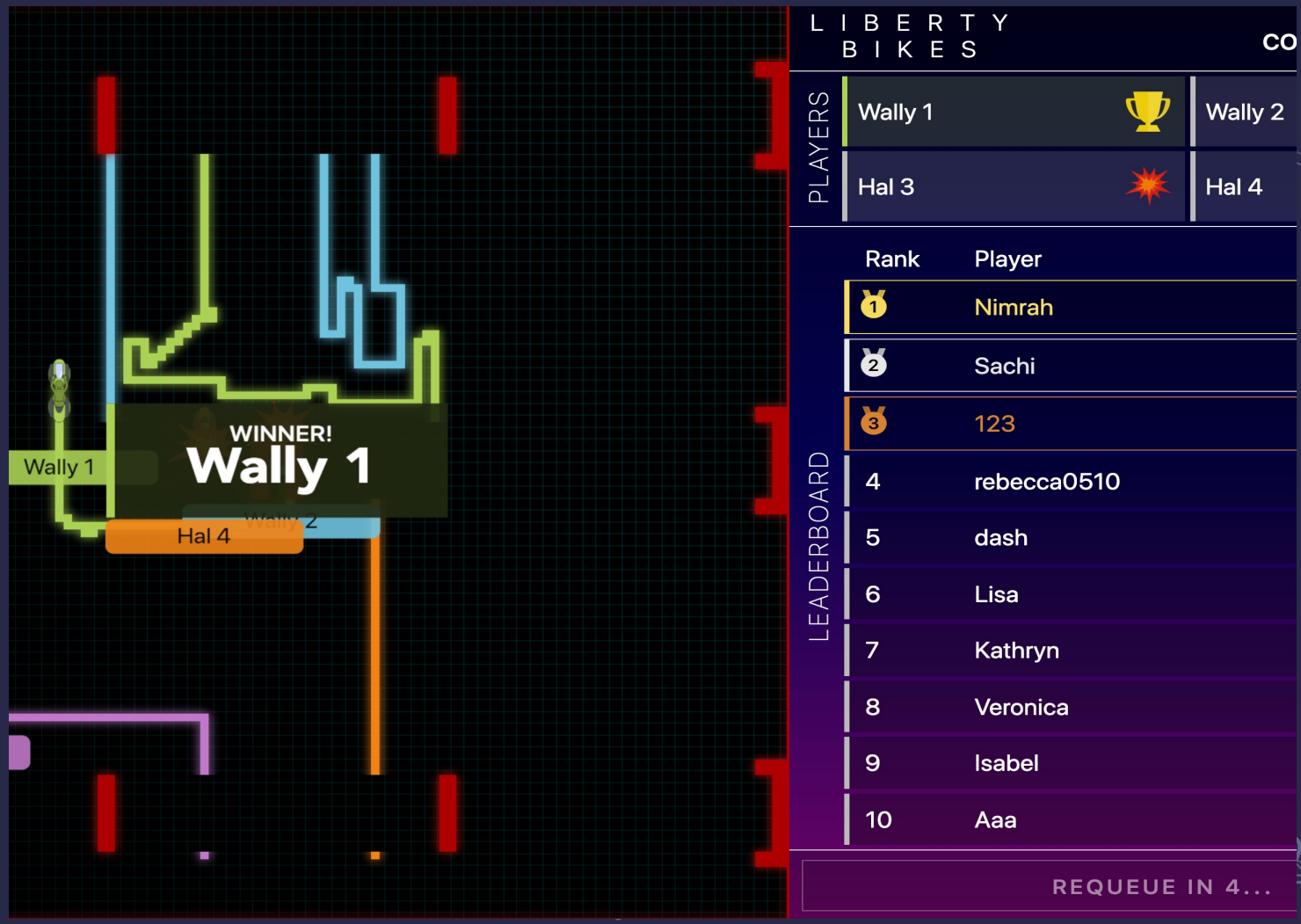
A Day in the Life of IBM Java Software Developers

Introductions

Let's start with some fun...Liberty Bikes

A retro, light-bike game that is made up of Java microservices and written with MicroProfile; avoid obstacles and player paths!!!



https://lb.hypernerve.net

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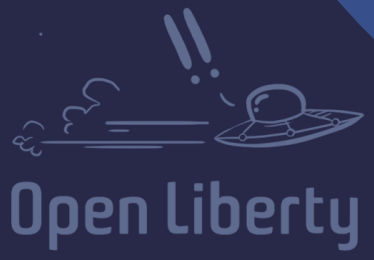
Working in Software Development at IBM



Where we fit within IBM

- *Introduction to where software development fits within IBM*

Developer != Developer

- Front-end developer (UI)
- Back-end developer
- Tools (compilers, IDE, Java)
- Testing
- Performance engineering
- Technical writing
- Customer support
- Architect
- Product Management
- Consultant
- Designer
- Seller
- Marketing
- Communications
- HR
- Management

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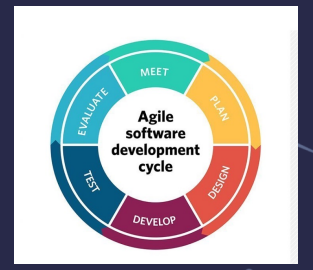
The tools we use

- Java, Bash, Python
- Eclipse, IntelliJ, VS Code (IDEs)
- Git
- Slack
- Outlook
- Webex
- Mac, Linux, Windows
- Agile
- Salesforce (customer support)
- Maven & Gradle
- Homegrown



Agile

Interview

Tell us a little bit about how you came to IBM and your path once there.

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Developer’s Journey into IBM

- *Developers to talk about how they landed in IBM*

Tell us a little bit about what your work day looks like.

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A Normal Work Day

Developers to share how their work days look like …

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What are some of the fun things in your day-to-day job that you enjoy at IBM?

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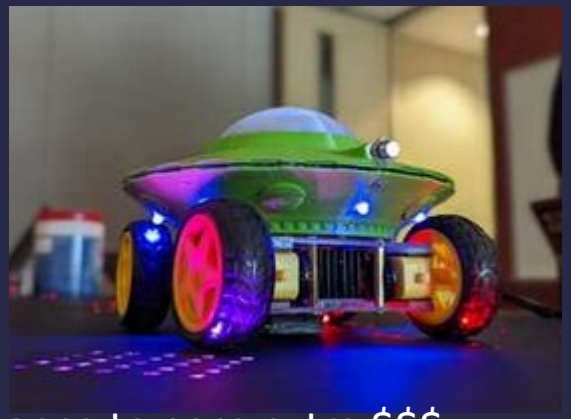
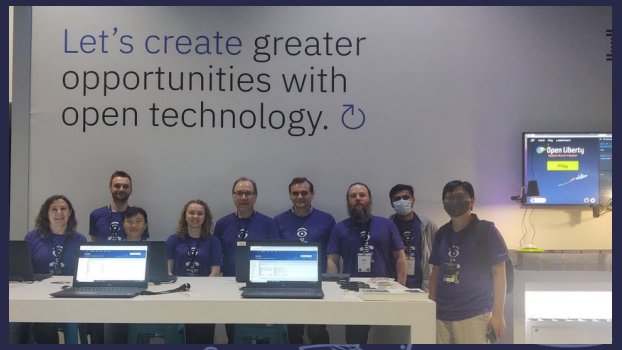
Besides the cool technology, what makes working at IBM Exciting?!?

- Developer Advocacy:
  - Conferences
  - College interactions
  - Talks
  - Workshops
  - User groups
- Liberty Bikes - an organization, contest winner
- Patenting : Mentoring, invention review board. Chance to earn extra $$$
- Lab Advocacy - working directly with customers
- Learning new technologies with time for education
- Flexible schedule / Work life balance / Wellbeing programs
- Toastmasters
- Jumpstart
- Lunch disc golf, Free Coffee/Snacks, Organizational events in the Summer, Fall and Holiday season
- BRGs (e.g. Black, Environment, Hispanic, LGBT, New Hire Network, Veteran, Work & Life Integration, Women in Technology)





What we work on

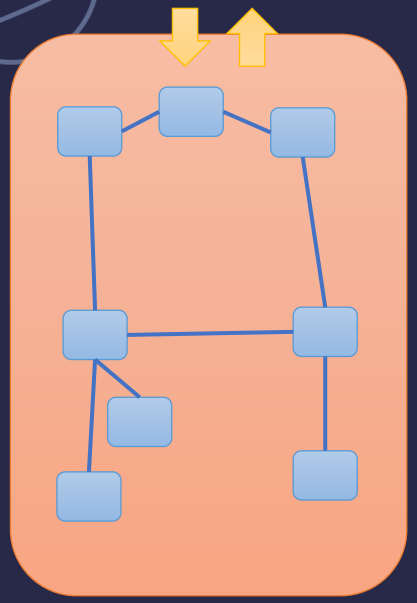
Give us some background
on what you work on.

Developer’s favorite "things" about their work

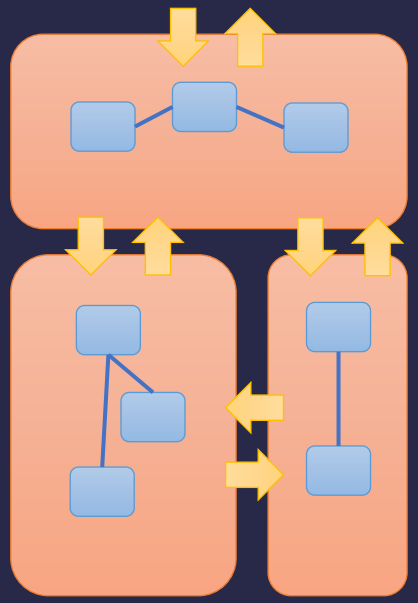
- *Developers to talk about what they work on and what they like about it*

Tell us how the marketplace
and technology changed over time.

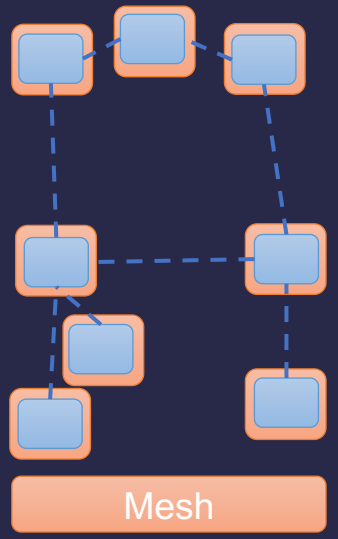
Over time…. Customers discovered a Spectrum of Architecture Styles…



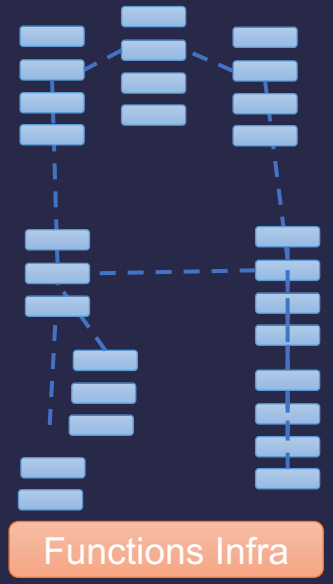
Monolith



“Macroservices”



Microservices



Functions

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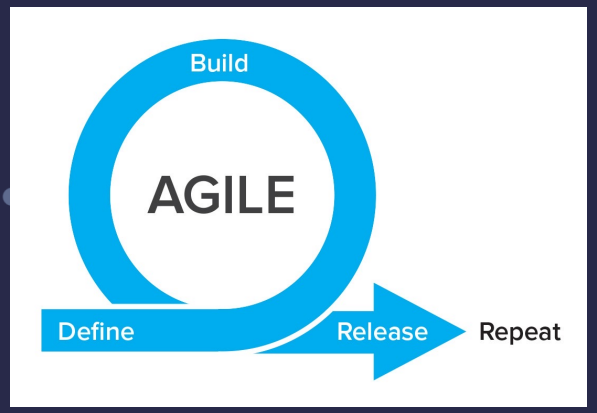
...They also demanded an Agile runtime built for DevOps, and fast deployment to the Cloud



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The world demands Open Source

Open Liberty

Open
Liberty

MySQL

odoo

The Apache Software
Foundation

Joomla!™
...because open source matters

Apache
OpenOffice™

JAKARTA EE

WORDPRESS

ECLIPSE
FOUNDATION

Magento™
Open Source eCommerce

Java

MICROPROFILE™
OPTIMIZING ENTERPRISE JAVA

ubuntu

android

Get Started
Guides
Docs
Support
Blog
openliberty.io
Open Liberty™
An IBM Open Source Project
A lightweight open framework for building fast and efficient cloud-native Java microservices.
Build cloud-native apps and microservices while running only what you need. Open Liberty™ is the most flexible server runtime available to Java™ developers in this solar system.
Get Open Liberty

A fully open Java stack

- *Discuss how we have a fully open Java stack these days*
- *It's about collaboration!*

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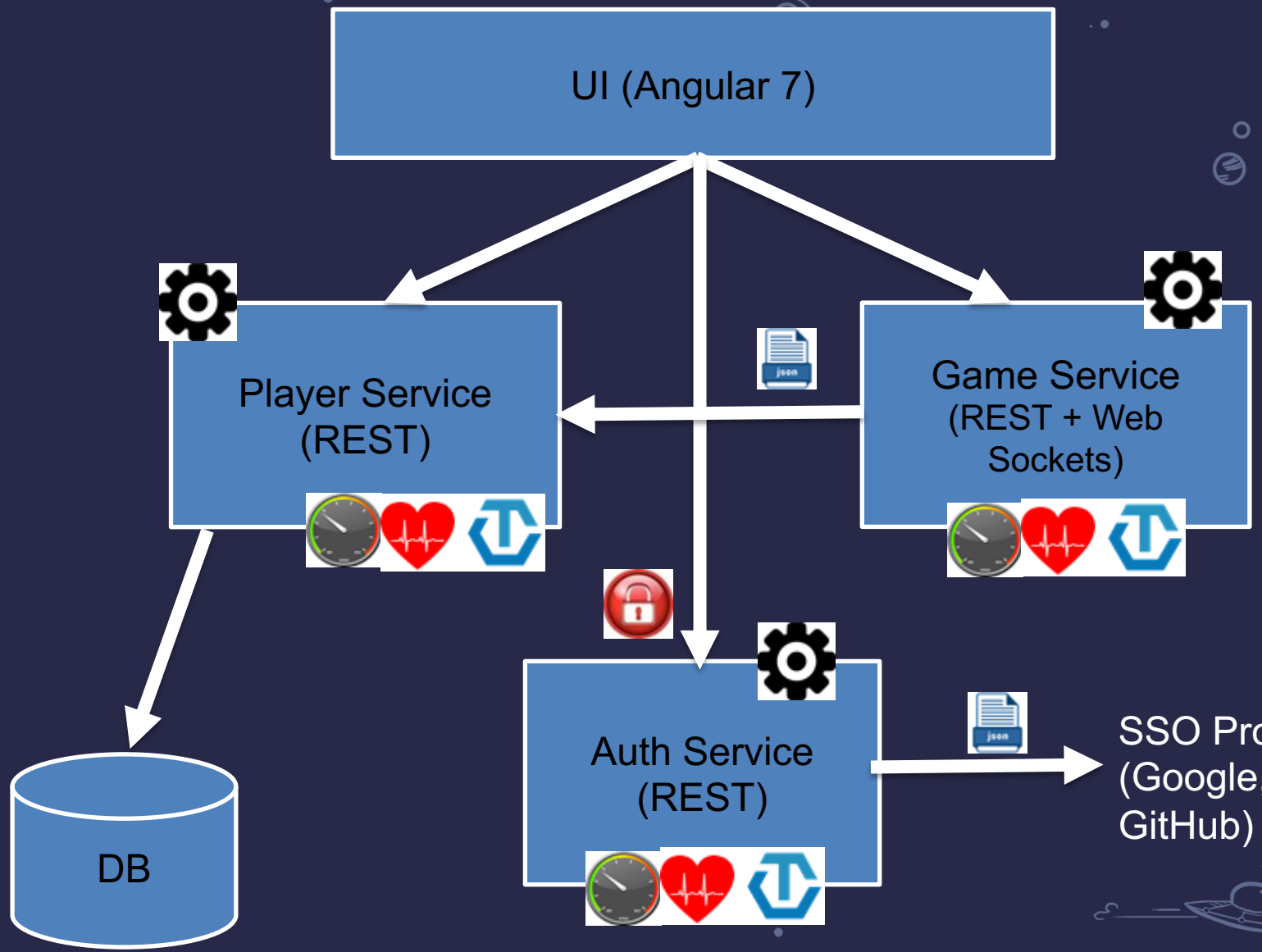
Tell us more about Liberty Bikes

Liberty Bikes



Prometheus for metric collection and Grafana for metric visualization

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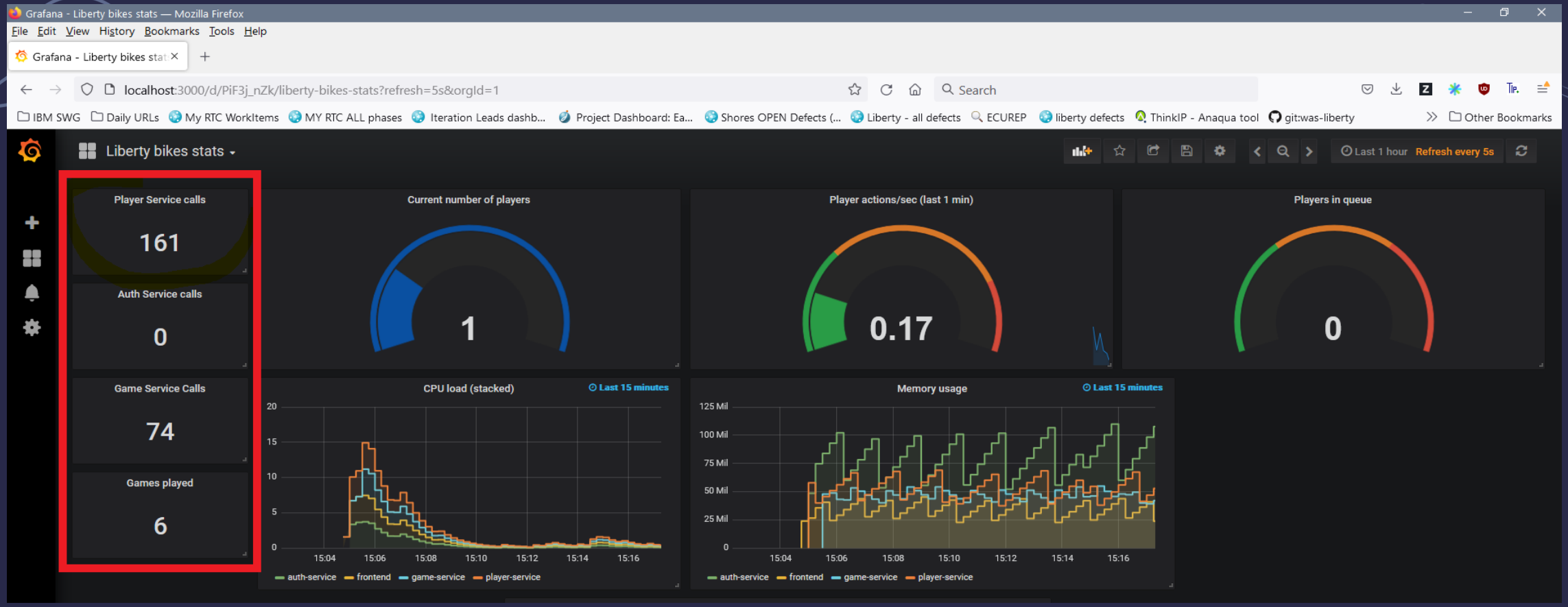
REST HTTP Traffic for Liberty Bikes



1 player and 3 bots

Games Played = 6

Player Service calls = 161

Game Service calls = 74

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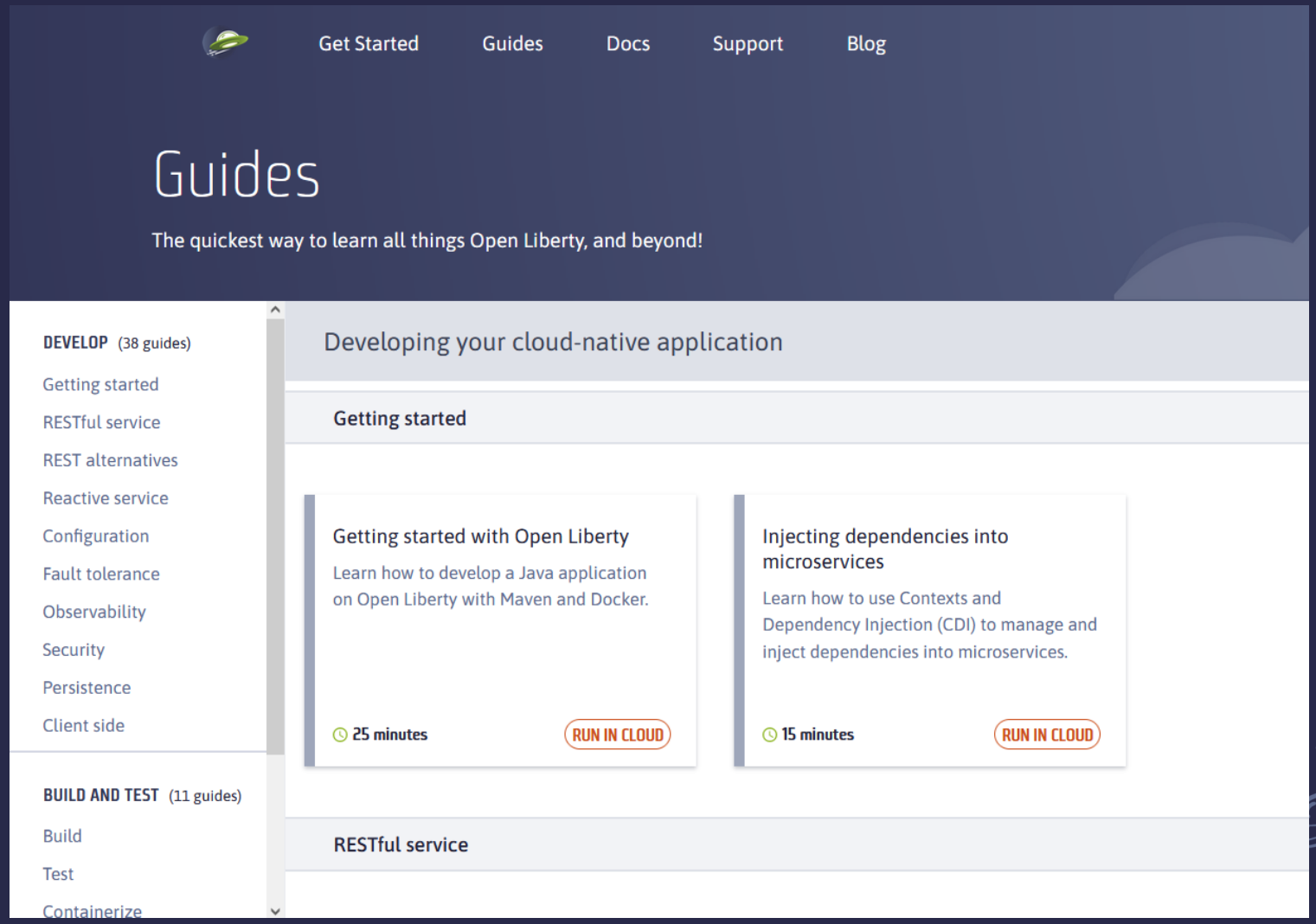
Open Liberty guides – A great learning resource!

60+ Guides available at https://openliberty.io/guides/



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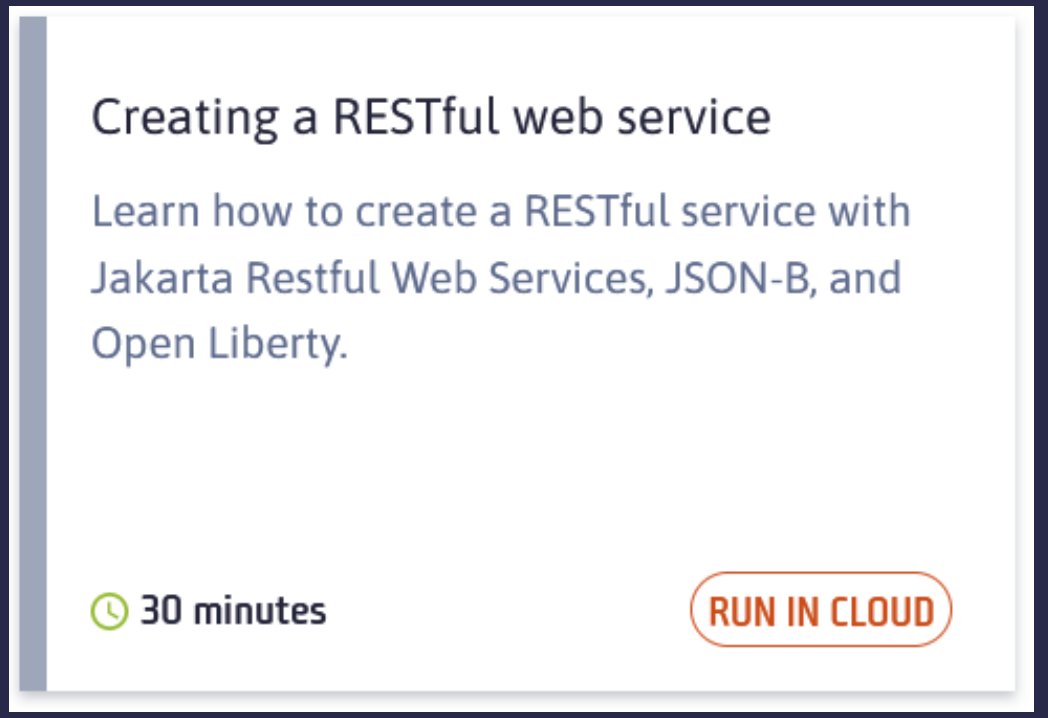
REST guide demo / walk through



https://openliberty.io/guides/rest-intro.html

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Closing

Getting plugged into IBM

- *HR information and links for students that are interested in opportunities at IBM*

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Thanks for listening to our talk today!!!

Contact info …

Q & A