Julia Park

Software Engineer

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⚫ Julia-Park

in julia-ay-park

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📍 Toronto, Canada

Skills

Back-end
Node.js, Ruby, PostgreSQL, MongoDB, RESTful APIs, Express, Sinatra, Minitest, Jest

Front-end
JavaScript, HTML, CSS, React/Redux, jQuery

Other
Git/GitHub, Docker, Nginx, Amazon Web Services, OpenTelemetry, Grafana, DigitalOcean Droplets, Bash, Linux

Education

Software Development & Full-Stack Web Development,
Launch School
2020 – 2022

Bachelor of Science, Honors Specialization in Genetics,
Western University
2009 – 2014

Technical Projects

Co-Creator & Software Engineer, *Firefly* 🔗
2022

Firefly is an open-source observability framework, providing an overview of serverless function health through the use of metrics and traces.

- Prototyped and built Firefly using Node.js, OpenTelemetry and Amazon Web Services (Lambda, Firehose, CloudWatch, S3, IAM).
- Created a command line tool to automatically instrument Lambda functions; published as an NPM package.
- Automated AWS infrastructure setup and teardown through the use of the AWS SDK and Terraform.
- Engineered middleware to handle context propagation for asynchronous, event-based Lambda invocations.
- Built a custom OpenTelemetry collector to receive metric and trace data.
- Architected telemetry pipeline which utilized OpenTelemetry, Promscale (timeseries database), and Grafana.
- Reduced telemetry pipeline setup to a two-step process using Docker (images, network, docker-compose).
- Enabled the display of serverless function telemetry data by leveraging SQL queries and Grafana dashboards.
- Collaborated with a remote team of 4 engineers across 3 countries.
- Authored technical case study 🔗 .

Launch School
2020 – 2022

- Attended a mastery-based education program focused on software engineering fundamentals.
- Developed open-source web applications and performed testing with technologies such as Node.js, Ruby, Minitest, Jest, PostgreSQL, MongoDB, React, JavaScript, HTML and CSS.

Professional Experience

Senior Data Conversion Specialist, *FieldEdge*
2017 – 2021

- Developed specialized tooling in MS Excel, VBA, SQL and Google Scripts for conversion and implementation teams.
- Maintained documentation and version control of internal tools via SharePoint and Git.
- Managed and conducted 20-30 conversion projects simultaneously while working with multiple stakeholders.

Project Coordinator, *University Health Network*
2015 – 2017

- Managed project activities and communications as the on-site liason for a pan-Canadian healthcare research pilot.