Julia Park

Software Developer

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📍 Toronto, Canada

Skills

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

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

Amazon Web Services (AWS)
Lambda, Firehose, CloudWatch, S3, IAM, SDK, CLI

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

Education

Software Development & Full-stack Web Development,
Launch School
2019 – 2022

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

Technical Projects

Co-creator & Developer, *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.
- Created a CLI to automatically instrument Lambda functions and setup AWS infrastructure; 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 utilised OpenTelemetry, Promscale (timeseries database), and Grafana.
- Reduced telemetry pipeline set up to a two-step process using Docker (images, network, docker-compose).
- Designed Grafana dashboards to display serverless function telemetry data using SQL queries.
- 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 with technologies such as Node.js, Ruby, Rails, PostgreSQL, React, JavaScript, HTML and CSS.
- Selected projects: Gouda Request (RequestBin clone), TodoList, Shopping Cart.

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 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.