Frank Liu

Contact Info

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qithub.com/frankliu197

Technical skills

Web Development:

React/Vue/Angular
JavaScript/Typescript
Express.js
Spring
Node.js
HTML/CSS

Programming Languages:

JavaScript/TypeScript
Python
Java
Bash
C/C++

Tools & Technologies:

Git SQL/NoSQL Visual Studio Docker Kubernetes Elastic Stack

Achievements

Nominated for Co-op Student of the Year 2020

Education

Carleton University

September 2017 — April 2022 Bachelor of Engineering, Software Engineer (Co-op) GPA: 11.0/12 (A)

Languages

English Chinese Japanese Spanish

Work Experience

Red Canari | Ottawa, Ontario Software Developer & Hacker

05/2021-09/2021

- Developed and commercialized *RegenX*, a web tool that generates customized reports based on report schemas, using **React**, **Couch/PouchDB** (**NoSQL**), and **Spring Reactive**
- Assembled a proxy database for runtime datatype analysis and version controlling through hooks, which uncovered over 40 data integrity issues/bugs
- Contributed to the open-source software Jinjava, a software that implements the templating engine Jinja in Java
- Collaborated with the CEO and the marketing director to promote RegenX by providing technical support and use cases
- Took the initiative to create onboarding resources and train new co-ops

Ericsson | Ottawa, Ontario

05/2020 - 04/2021

Network Verification - Co-op Developer

- Developed a proxy server written in Angular, PostgresDB, and Spring Boot, which is for network data version control and data transformation
- Facilitated network simulation by leading development of a service using Java to batch process and feed data to 5G network labs
- Performed load tests that support up to 5oGB of data, aggregated results, and identified scaling bottlenecks
- Auto-generated over 30 pages of Network Entities APIs by creating Excel sheets, graphs and Json Schemas from datasets
- Created Python scripts to validate Json Schemas against network entities fetched from Kubernetes, which found over 5000+ instances of structuralinconsistences
- Refactored and enhanced Nginx and Docker configuration files to enable remote deployment on Windows and Linux

Kinaxis | Ottawa, Ontario

05/2019 - 08/2019

Software Developer Data Server

Led development of a website written in Vue, Express, and SQLite which
fetches datasets, and creates graphs through the Elastic Stack endpoints and
visualizes them on a dashboard

Carleton University | Ottawa, Ontario

05/2018 - 08/2018

Systems Engineering Faculty - Software Developer

- Implemented a program in Java that allows transferable datasets used for machine learning between DL4J and Keras frameworks
- Redesigned Java Learning by Observation Framework, increasing speed, scalability, and extensibility

Projects

Math and Latin Input Method | Ottawa, Ontario 10/2021 – Current Project Manager

Working with other students on a machine learning algorithm to recommend
 Math and Latin symbols according to user input