Zhengliang Wang

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Skills

Languages	Java (Proficient), Python, TypeScript (Proficient), JavaScript, Bash
Frameworks/Libraries	Spring Boot, React, Next.js, Express, JUnit, Jest, Storybook
Software	MySQL, PostgreSQL, MongoDB, Git, Docker, Kubernetes, Liquibase
Middleware	Redis, RabbitMQ, Apache Kafka

Work Experience

Full Stack Software Developer intern | Solace Inc | Kanata, ON Jan. 2023 — Dec. 2024
- Assisted in developing and testing event-driven architecture software applications using **Spring Framework**.
- Improved overall response time on RESTful endpoints from second-level to **millisecond-level** with backend-for-frontend pattern.
- Cooperated with the design team to implement micro-frontends with **React** and **TypeScript**.
- Achieved **20%** faster rendering speed on micro-frontend pages by refactoring several UI modules with higher-order components.
- Responsible for maintaining the open-sourced event management agent to discover event flow data from **Solace** and **Kafka** brokers.
- Assisted in MySQL upgrade and migration for multiple microservices.

Software Developer | University of Ottawa | Ottawa, ON Jul. 2022 — Jul. 2023
- Responsible for implementing a no-code platform with microservices to host questionnaires and learning modules for researchers at the University of Ottawa.
- Improved service capacity by 12 times and optimized response time by 8 times with **Redis**.
- Automated unit testing and integration testing on Circle CI.
- Conducted stress testing with JMeter and achieved 400+ms latency and 600+ QPS with 200 concurrent users in 99 percentiles.
- https://geet.uottawa.ca

Machine Learning intern | Bank of Canada | Ottawa, ON May 2022 — Aug. 2022
- Developed hyper-parameter tuning automation pipeline with full compatibility of Scikit-learn and Keras packages.
- Reduced overall machine learning models' RMSE by 74% on Canadian macroeconomic predictions with random window expansion.
- Established interactive data dashboard on Canadian macroeconomic time series analysis with Plotly, Shapley value, and LIME.
- Automated data collection and cleansing with Pandas and Numpy with Bash script.

Project

Hackathon: Realtime System Data Streaming | Solace Inc. | Kanata, ON Jun. 2023 — Jun. 2023
- Designed an event-driven architecture for internal system status update.
- Implemented and integrated Spring Boot microservices with WebSocket.

Education

Master of Digital Transformation and Innovation Concentration in Applied Data Science Sep. 2021 — Aug. 2023
University of Ottawa *Ottawa, ON*
- Coursework: Full-stack Cloud Computing, Distributed Database, Software Engineering

Bachelor of Science in Computer Science 2018 — 2020
University of British Columbia Okanagan Campus *Kelowna, BC*
- Coursework: Computer Networking, Database Systems, Web Development, Software Engineering, Analysis of Algorithms, Human-Computer Interaction