

Zhengliang Wang

Cell: 6047715355
Email: wzlpucc@gmail.com

GitHub: pwang1997
LinkedIn: puck-wang-2020

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

- Participated in multiple-team development for the implementation of Solace Cloud Platform for Solace and Apache Kafka message queues using **Spring Boot** and **React**.
- 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**.
- Responsible for maintaining the **open-sourced event management agent** to discover event flow data from **Solace** and **Kafka** brokers.
- Optimized the level of SQL execution of 10,000+ rows to millisecond.
- Reduced the micro-frontend rendering overhead by 20% by applying Recoil state management and React Query.
- Conducted MySQL update and migrations 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 Sep. 2018 — May. 2020 University of British Columbia Okanagan Campus Kelowna, BC

- Coursework: Computer Networking, Database Systems, Web Development, Software Engineering, Analysis of Algorithms, Human-Computer Interaction

ACTIVITIES

Solace CO-OP Hackathon	Fall 2023
Solace Hackathon	Summer 2023
Solace CO-OP Hackathon	Winter 2023