Zhengliang Wang

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Software Developer

Portfolio
GitHub: pwang1997
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TECHNICAL SKILLS

Programming Languages	Java, TypeScript, JavaScript, Python, Bash
Frontend	React, Next.js, Redux, TanStack Query, Tailwind CSS, MUI
Backend	Spring Boot, Spring Cloud, Node.js, Express.js, gRPC, OpenAPI, JUnit
Databases	MySQL, PostgreSQL, MongoDB, Redis, Firebase
Software	Docker, Kubernetes, Terraform, Apache Kafka, RabbitMQ, DataDog, Git

WORK EXPERIENCE

Full Stack Software Developer   01/2023 — 12/2023
Solace Inc   *Kanata, ON*
- **Tech stack: Spring Boot, Open API, MySQL, React, Java, TypeScript**
- Collaborated in the development of the Solace Cloud Platform using **Spring** and **React**.
- Spearheaded the upgrade and migration of **Amazon RDS** from version 5.7 to 8.0 with minimal microservice downtime.
- Utilized **Mixpanel APIs** to implement user activity analysis plugins to assist product pivot decision making.
- Developed and documented **RESTful APIs** in Java and Spring Boot using the **OpenAPI Specification**.
- Maintained microserivce maven dependency health with WhiteSource Scan.

Software Developer   09/2022 — 05/2023
University of Ottawa   *Ottawa, ON*
- **Tech stack: React, Express.js, MySQL, Redis, Docker, Node.js, Nginx, TypeScript**
- Architected and developed a modular monolithic full-stack academic platform using **React**, **Node.js** and **MySQL**.
- Released two major versions of admin dashboard and questionnaire services with TanStack Query, **Express.js** and **Redis**.
- Improved system response time and read throughput by 10x times with Redis caching and Nginx reverse proxy.
- Crafted CI/CD pipelines using **CircleCI** for build, test, and deployment processes.

Software Developer intern   05/2022 — 08/2022
Bank of Canada   *Ottawa, ON*
- **Tech stack: Django, Keras, Bash**
- Architected and developed time series-based machine learning auto-tuning pipelines in Python and Keras.
- Implemented real-time macro-economy analysis dashboard with Plotly and Django.
- Accelerated data collection and cleansing in the pre-processing stage by using Bash and Python automation.

Web Developer   05/2019 — 08/2019
University of British Columbia   *Kelowna, BC*
- **Tech stack: React, Node.js, MongoDB, Travis CI, WebSocket**
- Led a team of four in developing a catering supply system with React, MongoDB and Node.js.
- Designed and developed a real-time chat service using Socket.io to support up to 1,000+ concurrent users.
- Conducted front-end behaviour-driven tests with Jasmine and Selenium and integration tests using Travis CI and Mocha.js.

PROJECT

Blog Management System GitHub | Website
- **Tech stack: React, Next.js, tRPC, Tailwind CSS, PostgreSQL, Supabase**
- Designed and implemented blog system with T3 stacks using Next.js, TypeScript, Tailwind CSS, Drizzle ORM and tRPC.
- Developed catalog, posting and commenting services with role-based authentication using NextAuth and GitHub OAuth.
- Utilized AWS Lambda to convert images into webp format and stored in AWS S3 bucket.

Job Recommender System | GitHub
- **Tech stack: Python, Flask, Numpy, Scikit learn**
- Designed a full-duplex recommender system for resume and job pairing with machine learning models.
- Performed classification, clustering modelling and collaborative filtering system design.
- Reduced time cost of pre-training by 80% and improved model generality and accuracy by 59%.

EDUCATION

Master of Applied Data Science   09/2021 — 08/2023
University of Ottawa   *Ottawa, ON*
Bachelor of Science in Computer Science, Honours Program   09/2018 — 05/2020
University of British Columbia   *Kelowna, BC*