Zhengliang Wang

Full-Stack Developer

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Portfolio
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TECHNICAL SKILLS

Programming Languages	Java, Python, PHP, TypeScript, JavaScript, Bash
Frontend	React, Next.js, Redux, Jest, Sass
Backend	Spring Boot, Spring Cloud, Node.js, Express, Open API, JUnit
Databases	MySQL, PostgreSQL, MongoDB, Redis, Firebase
Software	Docker, Kubernetes, Terraform, Jenkins, RabbitMQ, DataDog, Mixpanel, Liquibase, Git

WORK EXPERIENCE

Full Stack Software Developer intern   01/2023 — 12/2023
Solace Inc   *Kanata, ON*

- Collaborated and developed Message Queue Management System in Solace Cloud Platform with Spring Boot and React.
- Spearheaded the automation of a reactive test framework, ensuring 99% microservice availability in Spring WebFlux.
- Implemented user activity monitor plugins, improving product pivot and marketing decision efficiency by 20%.
- Accelerated development cycles by contributing to the internal React component library with TypeScript and MUI.
- Reduced codebase complexity by 20% percent and 5% in bundle size by refactoring reusable and optimized components.
- Spearheaded the migration of Webpack to Vite with 40%+ improved building speed and bundle size.

Software Developer   09/2022 — 05/2023
University of Ottawa   *Ottawa, ON*

- Architected and developed a modular monolithic full-stack academic platform using React, Node.js, and MySQL.
- Led a team of students to launch two major releases following Agile methodology and Test-Driven Development.
- Crafted CI/CD pipelines using CircleCI and GitHub Actions for build, test, and deployment processes.
- Secured system stability with JMeter stress testing, maintaining latency under 200ms in the 99th percentile.

Software Developer intern   05/2022 — 08/2022
Bank of Canada   *Ottawa, ON*

- 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.

Web Developer   05/2019 — 08/2019
University of British Columbia   *Kelowna, BC*

- 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

Enterprise Resource Cloud Application
- Tech stack: Spring Cloud, Spring Security, Spring Boot, React, MongoDB
- Designed and implemented a modular monolithic architecture using Spring Boot.
- Integrated third-party authentication with existing security controls, and user access permissions.
- Monitored system performance and conducted regular audits with Prometheus and DataDog.

gRPC-based Audit Progress Monitor
Solace Inc   *Kanata, ON*
- Tech stack: Spring Boot, gRPC
- Designed an event-driven architecture for internal system health check in replacement HTTP polling mechanism with gRPC.
- Spearheaded a cross-functional team to optimize core microservices network overhead and latency by 30%.

Blog Management System GitHub | Website
- Tech stack: Spring Boot, Nacos, Sentinel, Redis, Next.js, MySQL, AWS, Nginx, Docker
- Designed and implemented identity access management, posts and comments microservices.
- Achieved over 1000 QPS with multi-layer caching architecture using Server-Side Rendering.
- Deployed with AWS EC2, S3, RDS and Nginx with fail-safe system redundancy.

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*