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# Zhengliang Wang

## Software Developer

Portfolio  
GitHub: pwang1997  
LinkedIn: puck-wang-2020

Two years of experience in full stack development in B2B industry with focus of microservices and messaging middlewares.

### TECHNICAL SKILLS

Programming Languages	Java, Python, C++, TypeScript, JavaScript, Bash
Frontend	React, Next.js, Redux, Recoil, React Query, Jest, Storybook, Cypress, HTML5, CSS3, Sass
Backend	Spring Boot, Spring Cloud, Node.js, gRPC, Sentinel, Nacos, Swagger API, Django, Flask, JUnit
Databases	MySQL, PostgreSQL, MongoDB, GraphQL, Redis
Software	Docker, Kubernetes, Terraform, Jenkins, RabbitMQ, Apache Kafka, Git, GitHub Actions, Liquibase

### WORK EXPERIENCE

#### Full Stack Software Developer intern | Solace Inc | Kanata, ON

##### Event Portal Runtime Team

Jan. 2023 — Oct. 2023

- Collaborated in multiple-team development for the implementation of Solace Cloud Platform for Solace and Apache Kafka message queues with **Spring Boot** microservices and **React** in micro-frontends architectures.
- Designed and implemented highly scalable reactive event broker automation application template to enable nightly stability and stress testing prior product release.
- Managed and maintained healthy maven dependencies among multiple core microservices.

##### Event Portal Event Team

Oct. 2023 — Dec. 2023

- Built user activity monitor plugin to aid product owners in making judgement during A/B Testing with **Spring Boot AOP** and **DataDog**.
- Identified and optimized slow SQLs from seconds to millisecond-level.

#### Software Developer | University of Ottawa | Ottawa, ON

Mar. 2023 — May 2023

- Designed and implemented a no-code web platform for hosting questionnaires and learning modules for researchers at the University of Ottawa.
- Automated unit testing and integration testing on Circle CI and **GitHub Actions**.
- Conducted stress testings with JMeter and achieved 400+ms latency and 600+ QPS with 200 concurrent users in the 99 percentiles.

#### Software Developer intern | Bank of Canada | Ottawa, ON

May 2022 — Aug. 2022

- Developed hyper-parameter tuning automation pipeline.
- Established interactive data dashboard on Canadian macroeconomic time series analysis.
- Automated data collection and cleansing with Bash and Python script.

### PROJECT

#### Facade | Blog Management System | [GitHub](#) | [Website](#)

Mar 2024 — Apr 2024

- Designed microservice architecture with modules in identity access management, posts and comments.
- Implemented traffic control and dynamic rate limiter via Nacos, Sentinel and Redis.
- Achieved 1000+ QPS with multi-layer caching architecture using server-side rendering, Caffeine cache and Redis.

#### gRPC-based microservice health monitor | Solace Inc. | Kanata, ON

Jun. 2023 — Jun. 2023

- 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 microservice's network overhead and latency by 30%.

### EDUCATION

#### Master of Applied Data Science

Sep. 2021 — Aug. 2023

University of Ottawa

Ottawa, ON

#### Bachelor of Science in Computer Science, Honours Program

Sep. 2018 — May. 2020

University of British Columbia

Kelowna, BC