Puck Wang

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Portfolio
GitHub: pwang1997
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Software Developer

TECHNICAL SKILLS

1. Adequate knowledge of Java development with a solid understanding of **NIO** and **JUC** APIs.
2. Strong understanding on Object-Oriented Programming, Design Patterns, and Java Best Practices.
3. Familiar with **Spring Framework**, **Spring MVC**, **Spring Boot** with the concepts and applications of **IoC** and **AoP**.
4. Hands-on experience in developing and deploying **microserivce** application with **Docker**.
5. Adept at Test-Driven Development with JUnit, Mockito Jest and Mocha.js.
6. Familiar with MySQL in database transactions, execution plans, query optimization.
7. Hands-on experience in integrating **AWS Cloud Services**, including S3, Lambda, RDS and CloudFront.

WORK EXPERIENCE

Full Stack Software Developer   **01/2023 — 12/2023**
Solace Inc   *Kanata, ON*
- **Tech stack: Spring Boot, Open API, MySQL, React, Java, TypeScript**
- Developed and enhanced features of the Solace Cloud **SaaS** Platform using **Spring Boot** and **React**.
- Hands-on experience in debugging production **multi-threading** problems, including racing issues and deadlocks.
- Spearheaded the upgrade and migration of **Amazon RDS** from version 5.7 to 8.0 with minimal microservice downtime.
- Assisted product owners in making pivot decisions through a backend-oriented user activity analysis microservice.
- Developed and documented **RESTful APIs** in Java and Spring Boot with OpenAPI Specification.
- Maintained microserivce **Maven** dependency health with WhiteSource Scan, resolved over **20 critical vulnerabilities**.

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 academic platform using **React**, **Node.js** and **MySQL**.
- Released two major versions of admin dashboard and questionnaire services, improved overall throughput by 500% via **Redis**
- Managed CI/CD pipelines, fostered automation, and optimized workflows with **CircleCI**, reduced **40%** integration test duration.

Web Developer   **05/2019 — 08/2019**
University of British Columbia   *Kelowna, BC*
- **Tech stack: React, Express.js, MongoDB, Travis CI, Mocha.js, WebSocket, Node.js**
- Led a team of four students in developing a catering supply system for local chefs with React, MongoDB and Express.js.
- Refactored the real-time chat module with WebSocket, which reduced server CPU and network expense by 20%.
- Conducted front-end behaviour-driven tests with Jasmine and Selenium and integration tests using Travis CI and Mocha.js.

PROJECT

LLM-based Youtube Summarizer GitHub | Demo
- **Tech stack: Spring Boot, Spring AI, Open AI, Python, gRPC**
- Developed a microservice-based large language model solution, offering users concise summaries along with timestamped starting points for deeper exploration.
- Improved microservice response time from 500ms to 100ms and reduced response body reduced by 30% with **gRPC**.
- Deployed Redis instances, enhancing the microservice data retrieval efficiency by 50%.

Blog Management System GitHub | Website
- **Tech stack: Next.js, tRPC, Tailwind CSS, PostgreSQL, Supabase, AWS**
- Developed a 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.
- Effectively reduced image rendering time by 80% using **AWS S3**, **Lambda** and **CloudFront**.

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*