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Puck Wang

Software Developer

Portfolio
GitHub
LinkedIn

TECHNICAL SKILLS

1. Proficient in Java development with a solid understanding of **NIO** and **JUC** APIs.
2. Strong understanding of Object-Oriented Programming, Design Patterns, and Java best practices.
3. Familiar with **Spring Framework**, **Spring MVC**, **Spring Boot**, including the concepts and applications of **IoC** and **AoP**.
4. Hands-on experience developing and deploying **microservice** application with **Docker**.
5. Adept in Test-Driven Development with JUnit, Mockito, Jest and Cypress.
6. Familiar with MySQL in database transactions, execution plans, and query optimization.
7. Hands-on experience 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, React, Apache Kafka, MySQL, H2 DB
- Enhanced the integration of runtime event brokers for the Solace Cloud Platform with **Spring Boot** microservices and **React** microfrontend architectures.
- Designed and developed **RESTful APIs** to enable real-time scan feedback, config-as-code broker scanning, and graph-based relation visualization with Spring Boot, MySQL and H2 in-memory database.
- Integrated backend-based user activity analysis with **DataDog**, tracking user behaviour and retention during **A/B testing**.
- Spearheaded the roll-out plan of **Amazon RDS migration** from version 5.7 to 8.0, ensuring minimal microservice downtime.
- Adopted test-driven development, improving test coverage of **JUnit** integration tests, **Jest** Unit test and **Cypress** end-to-end tests from 65% to 85%.
- Introduced **React debouncer**, reducing rendering and data fetching times by **70%** during live data table searches and filtering.

Software Developer

03/2023 — 06/2023

University of Ottawa

Ottawa, ON

- **Tech stack:** Spring Boot, React, MySQL, CircleCI, Axios, TanStack Query
- Developed a research-oriented survey platform using **React** and **Spring Boot**, supporting 1000+ TPS with a p95 latency of 400ms.
- Implemented a schedule-based email microservice, processing over **5,000** email events daily with the **outbox pattern**.
- Streamlined CI/CD pipelines by identifying workflow bottlenecks in CircleCI, reducing build time by **47%** and integration tests time by **25%**.
- Encapsulated **Axios** and **TanStack Query** clients, enabling request and response interception.

Web Developer

05/2019 — 08/2019

University of British Columbia

Kelowna, BC

- **Tech stack:** React, Express.js, MongoDB, WebSocket, AWS S3, AWS Lambda
- Led a team in developing a **MERN-based** supply chain management system for **20+** catering groups in the Okanagan region.
- Developed RBAC, instant messaging and notification microservices, achieved **99.999% availability** for **100+ concurrent users**.
- Spearheaded the development of **version-based contract management**, reducing catering delays by an average of **10 hours**.
- Effectively reduced contract rendering time by **67%** through AWS Lambda compression services.

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 that provides users with concise summaries and timestamped starting points for deeper exploration.
- Utilized **gRPC** to improve microservice response time from 500ms to 100ms and reduced response body size reduced by 30%. Redis instances, enhancing microservice data retrieval efficiency by 50% and reducing the summarization process time from 70 seconds to an average of 30 seconds.

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