

Owen Lee

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Eligible Holder of Canadian Open Work Permit

SUMMARY

- Proficient in programming languages such as **Java**, **JavaScript**, and **TypeScript**
- Familiar with **full-stack development** frameworks, including **React.js**, **Vue.js**, **Spring Boot** and **Express.js**
- Managed and developed large information systems, utilizing **microservices** architectures, and **RDBMSs** like **PostgreSQL** and **Microsoft SQL Server**, in the CFD trading and insurance industries
- Three years of experience working in an **agile** software development life cycle
- **AWS Certified Solutions Architect - Associate** with experience in designing and implementing scalable and highly available cloud architectures

WORK EXPERIENCE

Application Development Senior Analyst

May 2022 - Feb 2023

Accenture Technology Solutions (H.K.) Limited

- Developed efficient **RESTful APIs** using **Node.js microservices** backend in **TypeScript**. These APIs retrieve and store private vehicle insurance policy data from the **Microsoft SQL Server** database by **PrismaORM** for a new digital platform for general insurance
- Planned and actualized a technical roadmap with **Agile** sprints and delivered quality results promptly
- Designed and developed independently for a cloud-based business report generation application, which is scheduled to generate Excel/CSV for business users on a daily/weekly/monthly basis, from scratch using **C#**, **.Net**, **Azure Functions** and **Stored Procedures**
- Revamped and transferred a form that originated from a 3rd party platform over to a new platform using **React.js** with **TypeScript** and the **Ant Design UI** library. The loading time has **decreased by a whopping 83%**, and the rebuilt form has **greater flexibility** for implementing new features
- Worked well with **cross-functional teams** to ensure the direction and progress of the project were in line and on track
- Managed to upgrade all the schema and data of the database by SQL successfully for a critical deployment

Programmer

Jul 2020 - May 2022

Insight Information Technology Limited

- Developed robust **RESTful APIs** with **Java** backend using **Spring Boot** framework with an in-house query builder library for retrieving and storing customers' CFD trading orders, deposits or withdrawals data in **PostgreSQL** for a back-office system application of the trading platform that is used by more than ten companies and generated **HKD 20M turnover daily**
- Developed and maintained four companies' user-centre webpages with **Vue.js** frontend and a **Spring Boot** plus **RocketMQ** and **Redis** application as the bridge between frontend and core backend server
- Contributed to revamping the back-office system application with **microservices** and **microfrontends** architectures, **Spring Cloud** framework, **React.js** frontend, and **GraphQL** as the API query language
- Facilitated seamless **API integration** with new join companies by liaising with vendors and drafting comprehensive documentation
- Provided **technical sharing** to colleagues to reduce their learning curve for some of the technologies that have not been used in the company yet, e.g. **React.js**, **Docker**, **ELK stack**, **GraphQL**

IT Consultant

Mar 2020 - Jun 2020

FDM Group

- Completed Software Development Training (**Unix**, **Oracle SQL**, **Java** and **Spring framework**)
- Built an FX trading platform using **Spring Boot** as the backend and **JSP** to render HTML

Company Secretarial Assistant

Jul 2017 - Sep 2019

Intertrust Group

- Resolved client's ad hoc Trust's or Company's actions
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LICENSE & CERTIFICATION

AWS Certified Solutions Architect - Associate

May 2023 - May 2026

Amazon Web Services

- Acquired in-depth knowledge of various **AWS services**, such as **EC2**, **S3**, **RDS**, and **VPC**, and how they can be integrated to meet specific business requirements

Backend Engineering Virtual Experience Participant on Forage

Jun 2023

Lyft

- Worked on improving the code base for Lyft through the use of **factory** and **strategy design patterns**. Rewrote the **unit test cases** to fit the new architecture and implemented a new feature using the **TDD** approach.

Java Multithreading, Concurrency & Performance Optimization

Jan 2022

Udemy

- Gained a solid understanding of **Multithreading** and **Concurrency**, and have conducted experiments involving load testing with **Apache JMeter**.

Professional Data Science

Sep 2020

Tecky Academy

- Learned **Python**, **Pandas**, **NumPy**, data visualization libraries, Machine Learning and Deep Learning concept to conduct a complete cycle of data analysis

SKILLS

Programming Languages: Java, JavaScript, TypeScript, Python, C#, SQL, Shell Script, HTML/CSS

Frameworks or Tools: Spring Boot, Spring Cloud, Hibernate, JSP, Node.js, Express.js, Knex.js, PrismaORM, React.js, Vue.js, Pandas, NumPy, AWS, Azure Functions, OpenShift, Docker, JIRA, Elastic Stack, Git, Postman, Redis, RocketMQ, Kafka, GraphQL, RESTful API, Ant Design UI, Material UI, Bootstrap

EDUCATION

MicroMaster in A.I. & Programming

Sep 2019 - Jan 2020

Tecky Academy

Bachelor of Business Administration (Hons)

Sep 2012 - Jul 2017

Hong Kong Shue Yan University

SIDE PROJECTS

Rental Apartments Web Application

Developed a web application platform for rental apartments using **React.js**, **Express.js** and **PostgreSQL**. The platform assists users in finding apartments by showing the geolocation alongside. Implemented features such as geolocation visualisation, 2D/3D floor plans and OAuth login. Designed and coded the database's schema, APIs, and frontend pages from scratch, overcoming 3rd party library integration challenges. The showcase of the platform received positive feedback, as there is no similar web application in Hong Kong.

Github: <https://github.com/OwenLee/rental-apartment-app>

Voice Dating Web Application

Developed a dating web application using **HTML/CSS**, **Vanilla.js**, **Express.js**, **Socket.io** and **PostgreSQL**. Designed to help help users connect with potential matches or friends based on their voice messages instead of other appearance. The web application included a real-time 1 to 1 chatroom, voice message/photos upload and a rating system. This project was a great opportunity to practice my full-stack development skills by creating and implementing features from scratch.

Github: <https://github.com/OwenLee/voice-dating-app>
