

OWEN LEE

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Skills

- Java | JavaScript | TypeScript | C# | Python | PostgreSQL | MSSQL | ORM | Spring | Node | Express | React | Redux | Vue | SCSS
- AWS | Cloud Computing | CI/CD | GraphQL | Kafka | Lambda | Azure Functions | Redis | Nginx | OOP | Git | Postman | JIRA
- Microservices | Frontend | Backend | Full-Stack | Agile | English, Cantonese, Mandarin – All professional proficiency or above

Experience

Application Development Senior Analyst Accenture *Hong Kong* **05/2022 - 02/2023**

- Digitalized and implemented a general insurance platform with **agile methodology** for a global insurance company using **React, Node.js, TypeScript, Microsoft SQL Server, PrismaORM, Azure** and **OpenShift**.
- Designed and implemented scalable **RESTful APIs** with Node.js microservices backend to retrieve and store private vehicle insurance policy and product data from the **Microsoft SQL Server** database by **PrismaORM**.
- Led the design and developed a cloud-based business report generation application from scratch using **C#, .Net, Azure Functions** and **Stored Procedures**. The application is scheduled to generate complex **data reports** in CSV/Excel format for business users on a daily/weekly/monthly basis.
- Implemented a data mapping system in the backend exported in **JSON format**; closely communicated with the 3rd party document generation service team and integrated with their service by **SOAP protocol** and **XML** to cater to 250+ customer-facing correspondence documentation relating to 3 business partners.
- Redesigned and enhanced a form with 10+ sections and 150+ fields with different functionality over to a new platform using **React** and **Redux** with **TypeScript** and **Ant Design UI library**. The form catered for the whole lifecycle of all the business partners' insurance policies. The loading time has decreased by a whopping 83%, and the rebuilt form has greater flexibility for implementing new features.
- Led and prepared 20+ **SQL scripts** carefully to upgrade all the schema and data of the database for critical data migration.
- Coached L1 supports on how to investigate and fix production bugs.

Programmer Insight Information Technology Limited *Hong Kong* **07/2020 - 05/2022**

- Developed features and robust RESTful APIs for the back office application of the financial derivatives trading platform using **Java, Spring Boot, JSP** and **PostgreSQL**.
- Developed and enhanced four companies' user-center web pages in both PC and mobile versions with multi-languages support using **Vue** plus a **Spring Boot** application together with a message queue (**RocketMQ**) and **Redis** that act as the bridge between frontend and legacy backend.
- Designed and built a revamp project of the back office application using microservices and microfrontends architectures, **Spring Cloud framework, React**, and **GraphQL** as the API query language.
- Assisted manager to debug a data streaming application using **Apache Flume** and **Kafka**.
- Researched the latest technologies that can help to streamline the development and troubleshooting processes e.g. **Docker, ELK stack** and hosted a technical sharing with colleagues to reduce their learning curve for the hottest technologies e.g. **React, GraphQL**.
 - Collaborated with newly joined companies and drafted comprehensive documentation including APIs specification, infrastructure setup procedures and customized environment configuration for them to facilitate the system integration process.
- Communicated with product owners and the back office team to fix production bugs under a tight deadline.

IT Consultant FDM Group *Hong Kong* **03/2020 - 06/2020**

- Completed software development training including the courses of **Unix, Shell Script, Oracle SQL, Java** and **Spring framework**.
- Designed and built a FX trading platform with **TDD approach** using **Java, Spring framework, JSP, bootstrap, JUnit** and **Mockito**.

Education

Coding Bootcamp in Programming Tecky Academy *Hong Kong* **09/2019 - 01/2020**
Bachelor of Business Administration Hong Kong Shue Yan University *Hong Kong* **09/2012 - 07/2017**

Projects

- **BeeBeeRentals**: Designed and developed rental apartment platform (**React, Express.js, AWS, PostgreSQL**). Link to [GitHub](#). (01/2020)
- **SPRight**: Designed and developed a voice dating application (**VanillaJS, Express.js, Socket.io, PostgreSQL**). Link to [GitHub](#). (12/2019)

Certificates

- **Lyft - Backend Engineering Virtual Experience Participant on Forage**: Refactored the codebase through the use of factory and strategy design patterns; rewrote the unit test cases to fit the new architecture; implemented a new feature using the TDD approach. (06/2023)
- **AWS - AWS Certified Solutions Architect - Associate**: Acquired in-depth knowledge of various AWS services. (05/2023 - 05/2026)