

Ken Lai

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PROFESSIONAL EXPERIENCE

Customomy Company Limited

June 2022 – November 2023

Software Engineer

Hong Kong

- Reduced manual testing effort drastically by over 90% through the development of an automated testing program using **Typescript** and **Mocha**, which enabled error detection from over 5 blockchains within 10 seconds.
- Collaborated with the design team to implement over 30 event-triggered notifications, enhancing the user experience.
- Integrated 5+ blockchains, including XRP, TRON, SOL, BTC, and EVM, into the crypto wallet adhering **Object-Oriented Principles**, enhancing asset management functionalities while ensuring high maintainability and scalability of the code.
- Upgraded the codebase to **Typescript** after 3 days of quick study to enhance code reliability and readability, demonstrating technological adaptability.
- Detected and documented over 200 bugs in User Acceptance Test, scrutinizing user interfaces and functionalities, achieving exceptional software quality, reliability, and an impressive user satisfaction rate exceeding 90%.
- Conducted comprehensive code reviews and resolved over 50 backend bugs, including database and blockchain-related issues, demonstrating problem-solving skills and resulting in a 60% reduction in downtime.

Swire Resources Limited

June 2021 – August 2021

Data Analytics Intern

Hong Kong

- Performed Exploratory Data Analysis with **Seaborn**, **Pandas**, and **Tableau** to derive market insights and identify trends.
- Extracted over 100 customer demographic features to train a more accurate predictive model for the e-commerce websites.
- Optimized complex **SQL** queries capable of searching millions of rows of data in a **Postgres** database in under 1 second.

EDUCATION

George Brown College

September 2023 – August 2024 (Expected)

Mobile Application Development And Strategy Program (Postgraduate), GPA: 4.0/4.0

Toronto, Ontario

- Networked and built rapport with industry peers at Google DevFest Toronto, exchanging ideas in emerging technologies.
- Relevant Coursework: Advanced Android Development, Advanced IOS Development, Cross-Platform Mobile Development

The Chinese University of Hong Kong

2018 – 2022

B.Sc. in Mathematics (Upper Second-Class Honours), Minor: Computer Science

Hong Kong

- Awarded the College Certificate of Academic Merit in consecutive academic years, 2021/2022 and 2022/23.
- Relevant Coursework: Software Engineering, Building Web Applications, Introduction to Database Systems, Cyber Security

PROJECTS

[Tracker iOS App](#)

- Developed an **iOS** tracker app with **Swift** and **SwiftUI**, featuring real-time location sharing, path plotting, geofencing, and live weather updates, using **Firebase** for user authentication and data synchronization.

[Job Hunting Robot](#)

- Automated the job searching process using **Python** and **Selenium**, proficiently using web scraping techniques to navigate job portals and extract relevant job listings, showcasing advanced skills in automation and data extraction.
- Engineered ChatGPT prompts for auto-generation of cover letters customized per job listing.

[Travel Photo Sharing Android App](#)

- Implemented the app utilizing **Kotlin**, which features Google Maps API for location services, integrated camera functionality for instant photo uploads, and **Firebase** for user access control, delivering a seamless and secure user experience.
- Led the group project of 6 people utilizing **Git** for version control and **Jira** for efficient task management, resulting in streamlined collaboration, improved code quality, and timely delivery of project milestones.

[Web Application: An Event Explorer](#)

- Designed a full-stack solution with **React** and **Node.js**, creating a **RESTful API** using **Express** that facilitated **MongoDB** data operations, earning the distinction of top project in a class of 200+ students.
- Implemented secure image storage solutions using **Amazon S3** and developed a modular email system for user notifications.

SKILLS

- Programming Languages: JavaScript, TypeScript, Python, Kotlin, Java, MATLAB
- Frontend Development: HTML, CSS, Angular, React.js, Redux, Selenium
- Backend Development: Spring Boot, Express.js, Node.js, AWS, Firebase
- Database / Data Science: SQL, MongoDB, MySQL, PostgreSQL, Redis, Tableau, NumPy, Pandas, Seaborn, TensorFlow
- Mobile Development: Android, IOS, Swift, React Native
- Tools: Git, Jira, Docker, Jenkins, VS Code, Postman, Android Studio, MS Office
- Others: Object-Oriented Programming, REST API, Agile, Unified Modelling Language, MVC, MVP, MVVM