Lik Ern Leong

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Professional Experience

Java Backend Engineer Intern, Ant International, Kuala Lumpur

Nov 2024 — Feb 2025

- Developed and deployed a **B2B, B2C production-ready web application** that segments customers based on payment behaviors, enabling tailored strategies such as On-Behalf Of (OBO) and Full Value Transfer (FVT), while adhering to **N-Tier Architecture** Controller–Service–Implementation–DAO–Repository–Model–Utility layers. Ensured modularity, scalability, and ease of maintenance across distributed microservices.
- Implemented **functional UI components** using YunFengDie and API endpoints to support seamless integration and operation within a large-scale enterprise system.
- Contributed to the **full production release pipeline**, from development through simulation and pre-production testing, collaborating with QA to ensure software quality and timely test scheduling.
- Implemented a **grayscale rollout strategy** to gradually release features to users in waves.
- Configured and maintained a **monitoring system** using AntMonitor to track deployment log activities, improving system reliability and issue detection.
- Collaborated with cross-border teams from United States, China, and Singapore managing databases to ensure proper configuration and stability during deployments.
- Worked closely with Product Designers in China to implement evolving feature requirements, **maintain system alignment with current specifications**, and promptly address design-related issues.
- Executed **rollback procedures** and resolved production deployment issues by working closely with application owners to ensure minimal downtime.

Education

Bachelor of Computer Science, Monash University Malaysia, Subang Jaya

Oct 2022 — Nov 2025

- Major in Advanced Computer Science
- Grades: CGPA 3.33, WAM 78%
- achieved 95% in Algorithms and Programming Fundametals in Python, 90% in Introduction to Computer System, Network and Security

Cambridge International AS & A Levels, Sunway College, Subang Jaya

Jan 2021 — Jul 2022

IGCSE, Shanghai Singapore International School, Shanghai

Aug 2018 — Nov 2020

Personal Projects

Personal Portfolio Platform

- Link: https://samuelleonglikern.vercel.app/
- Designed and developed a responsive web application with a reactive UI that adapts seamlessly across different screen sizes and devices.
- Implemented optimal coding practices, including MVVM architecture, clean project structure, and maintainable code, ensuring scalability and readability.
- Built with Flutter, delivering high responsiveness, usability, and a consistent cross-platform experience.

Final Year Project (AI Chatbot)

- Built a custom chatbot creation platform leveraging Retrieval-Augmented Generation (RAG), allowing users to train chatbots with uploaded datasets in multiple formats.
- Developed a full-stack web application with a React frontend and Flask backend, connected via RESTful APIs for smooth client–server communication.
- Implemented a secure authentication system using Supabase Auth for backend identity management and JWT tokens for client-side session handling, supporting role-based access control.
- Integrated file upload functionality with validation and secure storage pipelines, enabling reliable ingestion of training data for chatbot workflows.
- Designed and implemented a widget embedding feature that generates a unique HTML <iframe> tag for each chatbot, enabling seamless website integration and real-time user interaction directly within client platforms.

NutriCoach Health App

- Developed an Android application using Kotlin and Jetpack Compose for declarative UI, adopting MVVM architecture with ViewModel and LiveData/StateFlow for reactive state management.
- Integrated a Room database for persistent local storage with DAO-based queries and schema migrations, ensuring offline-first functionality.
- Implemented secure authentication and login sessions with persistent user state stored via SharedPreferences/Room, maintaining consistency across app restarts.
- Leveraged the Android lifecycle APIs to manage resources efficiently, ensuring smooth activity/fragment transitions and preventing memory leaks.
- Achieved High Distinction (HD) in *Mobile Application Development*, demonstrating mastery of Android app architecture and best practices.

Tetris Game

- Developed a fully functional and playable Tetris game using TypeScript, CSS, and RxJS, applying core programming paradigms including reactive programming, pure functional design, and immutable data structures.
- Implemented event-driven mechanisms for real-time user input handling and managed concurrent game state updates to ensure responsive and seamless gameplay.
- Achieved an overall grade of 88% for the *Programming Paradigms* course.

Technical Skills

Programming Languages: Java, Kotlin, Python, JavaScript, TypeScript, SQL, Dart

Frontend & Mobile Development: React.js, HTML5, CSS3, Tailwind CSS, Flutter, Jetpack Compose

Backend Development: Spring Boot, Sofaboot, Flask, RESTful API Design, JWT Authentication, Supabase Auth, ORM (JPA/Hibernate), JSON Processing

Architecture & Design Patterns: OOP, N-Tier Architecture, MVVM, MVC, Clean Architecture, Reactive Programming, Modular Codebase Design

Database & Storage: PostgreSQL, MySQL, Supabase, Room Database, SharedPreferences, File Storage Pipelines

Testing & Quality Assurance: Unit Testing (JUnit, Mockito), Integration Testing, QA Collaboration, Pre-production Simulation Testing, Real-time Deployment Log Tracking, Error Monitoring

Extra-curricular activities

Fintech Ideathon 2025, Monash University, Amazon, CIMB Bank, AEON Bank

Sep 2025

- Gained valuable insights into fintech systems and the integration of banking ecosystems within digital platforms.
- Obtained Participation Award.

Byte Buddies Mentorship Program, Monash University, School of IT

Feb 2025 — Mar 2025

- Provided guidance and peer support to new students in the School of IT. Gained & improved leadership, communication, and mentoring abilities.
- Awarded Certificate of Recognition

Events Team Sub-Committee, Monash Photography Society

Aug 2025 — Nov 2025

- Organized multiple events, including liaising with Sony Malaysia Ambassador Jonathan Chong for an on-campus workshop, gaining valuable experience in event coordination, stakeholder communication, and professional networking.

Additional Information

Links: Portfolio, LinkedIn

Languages: English, Mandarin, Cantonese, Malay