Lik Ern Leong

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Professional Experience

Java Backend Engineer Intern, Ant International, Kuala Lumpur
Nov 2024 — Feb 2025

- Developed backend services using **Spring Boot** and **SOFABoot** in a **microservice-based architecture**, integrating middleware components such as **message brokers**, **job schedulers**, and **dynamic resource configuration**.
- Built and deployed a **B2B/B2C production web application** for customer segmentation based on payment behaviors, enabling tailored strategies (OBO, FVT) while adhering to **N-Tier architecture** for modularity, scalability, and maintainability.
- Implemented **functional UI components** with **YunFengDie** and **RESTful APIs** to enable seamless frontend–backend integration in a large-scale enterprise environment.
- Contributed to the **production release pipeline**, collaborating with QA teams for simulation, pre-production testing, and test scheduling.
- Deployed new features using **grayscale rollout strategies** to ensure controlled and stable releases.
- Configured monitoring system (AntMonitor) to track deployment logs, improving reliability and issue detection.
- Collaborated with **cross-border teams** (U.S., China, Singapore) on database management, ensuring proper configuration and deployment stability.
- Worked closely with **Product Designers** in China to align evolving feature requirements and address design-related issues promptly.
- Executed **rollback procedures** and resolved production issues with application owners to minimize downtime.

Personal Projects

Personal Portfolio Platform
- Link: https://samuelleonglikern.vercel.app/
- Designed and developed a **responsive web portfolio** using **Flutter**, featuring a reactive UI adaptable to all screen sizes.
- Applied **MVVM architecture** and clean coding practices to ensure scalability, maintainability, and cross-platform performance.

Final Year Project (AI Chatbot)
- Built a custom chatbot creation platform leveraging **Retrieval-Augmented Generation (RAG)** for user-trained chatbots across multiple data formats.
- Developed a **full-stack web app** with **React (frontend)** and **Flask (backend)**, connected via **RESTful APIs** for efficient client–server communication.
- Implemented **Supabase Auth** and **JWT-based session handling** for secure, role-based authentication.
- Added file upload pipelines with validation and HTML <iframe> embedding for seamless chatbot integration into client websites.

NutriCoach Health App
- Built an Android app using **Kotlin** and **Jetpack Compose**, adopting **MVVM architecture** with reactive state management via LiveData/StateFlow.
- Integrated **Room database** for persistent offline storage and **SharedPreferences** for secure user sessions
- Optimized resource handling using **Android lifecycle APIs**, ensuring smooth UI transitions and efficient memory use.

Tetris Game
- Developed a Tetris game using **TypeScript**, **CSS**, and **RxJS**, applying **reactive programming** and **functional design** principles.
- Implemented event-driven logic for real-time user interaction and state updates, achieving an 88% course grade in Programming Paradigms.

Education

Bachelor of Computer Science, Monash University
Oct 2022 — Nov 2025

- Major in Advanced Computer Science
- Grades: CGPA 3.27, 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
Jan 2021 — Jul 2022

IGCSE, Shanghai Singapore International School
Aug 2018 — Nov 2020

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 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 (https://samuelleonglikern.vercel.app/), LinkedIn (https://www.linkedin.com/in/lik-ern-leong-73873a1a0/)

Languages: English, Mandarin, Cantonese, Malay

Hobbies: Photography, Music Composition