

TECHNICAL SKILLS

Testing & Automation: Pytest, Selenium, Appium, Postman, Test Planning, QA Automation
Languages: Python, SQL, JavaScript, TypeScript, Java
Tools: Git, Docker, Jenkins, GitHub Actions, Figma, Supabase
Databases: PostgreSQL, MySQL, MongoDB
Other: REST APIs, CI/CD, Agile/Scrum, RBAC

EXPERIENCE

- Software Engineer Intern – QA Automation**
Grab

July 2024 – Dec. 2024
Petaling Jaya, MY

 - Accelerated test development by 60% via AI-powered automation agent for authentication workflows.
 - Delivered 22 production-grade Python scripts with Appium and Selenium, boosting coverage by 15% .
 - Designed and executed weekly regression suites certifying releases for 200+M users across 8 markets.
 - Tested REST APIs with Postman and validated data via SQL queries, reducing API defects by 30% .
 - Collaborated with PMs, designers & engineers across 3 squads to define test strategy for new features.
 - Identified 40+ bugs including 8 critical security issues, elevating platform reliability and user trust.
- Frontend Developer**
CommerceOwl

Oct. 2022 – Feb. 2024
Edmonton, CA (remote)

 - Achieved 95% + test coverage on React, Next.js and Vue.js apps using Jest & React Testing Library.
 - Integrated RESTful APIs and optimized data-fetch patterns, cutting client requests by 45% .
- Software Engineer Intern**
UM PTM

July 2023 – Oct. 2023
Kuala Lumpur, MY

 - Streamlined procurement workflows for 500+ staff via PHP MVC app and MySQL, reducing processing time by 50% .
 - Engineered normalized schema with 15+ tables and constraints, ensuring data integrity and compliance.
 - Collaborated in Agile sprints with 5 departments to define requirements & deliver modular, testable components.

PROJECTS

- TeaPOS – Multi-Tenant POS** | <https://github.com/ahmadfahrezi81/tea-pos>
Next.js 14, TypeScript, Supabase, PostgreSQL, Tailwind, Chart.js

 - Built multi-tenant SaaS POS with row-level security, isolating data for unlimited organizations.
 - Engineered normalized Supabase schema with 12+ tables and policies, enforcing tenant-specific access.
 - Developed real-time dashboards using React Server Components & Chart.js for sales analytics.
 - Implemented RBAC middleware and Supabase Auth, enabling fine-grained store-level permissions.
- Eco-Mobility Tracker** | <https://github.com/ahmadfahrezi81/Eco-Mobility-Mobile-App>
React Native, Next.js, TypeScript, Firebase, Expo, Google Maps API

 - Engineered cross-platform app tracking carbon footprints using GPS and ML-based transport detection.
 - Optimized background data batching reducing battery use by 28% while maintaining 99% sync reliability.
 - Integrated Google Maps API for route visualization & heatmaps, syncing data via Firebase Realtime DB.
 - Established CI/CD pipeline with Expo EAS & GitHub Actions for automated testing and deployments.

EDUCATION

- University of Malaya**
Bachelor of Computer Science, Software Engineering

Kuala Lumpur, MY
Oct. 2021 – Oct. 2025

 - **Relevant Coursework:** Data Structures and Algorithms, Database Systems (Oracle, MySQL, MongoDB), Object-Oriented Design, Mobile App Development, Machine Learning, Web Development, Software Engineering Principles