

TECHNICAL SKILLS

**Languages:** Python, JavaScript, TypeScript, Java, SQL, PHP  
**Frameworks:** React, Next.js, React Native, Node.js, Spring Boot, Vue.js, Remix  
**Testing & Automation:** Appium, Selenium, Jest, Pytest, Test Planning, QA Automation, Postman  
**Tools:** Git, Docker, Firebase, AWS (EC2, S3), GitHub Actions, Jenkins, Figma, Supabase  
**Databases:** PostgreSQL, MySQL, MongoDB, Oracle, Prisma, Firebase Realtime DB  
**Other:** REST APIs, Authentication (JWT, OAuth, SSO), CI/CD, Agile/Scrum, SEO Optimization, RBAC

EXPERIENCE

- Software Engineer Intern – QA Automation**  
*Grab*

July 2024 – Dec. 2024  
*Petaling Jaya, MY*

  - Spearheaded development of an AI-powered test automation agent, eliminating manual scripting overhead for authentication workflows and accelerating test development by 60%.
  - Delivered 22 production-grade Python automation scripts using Appium and Selenium frameworks, exceeding H2 2024 automation coverage targets by 15% for Grab’s Identity platform.
  - Executed critical weekly regression test suites ensuring platform stability and security for 200+ million Grab users across 8 Southeast Asian markets.
  - Validated REST APIs using Postman and SQL; tracked 40+ bugs including 8 critical security issues.
  - Collaborated cross-functionally with product managers and engineers to define test strategies for new features.
- Frontend Developer**  
*CommerceOwl*

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

  - Architected and delivered feature-rich web applications across multiple JavaScript ecosystems with 95%+ test coverage using Jest and React Testing Library.
  - Drove 32% increase in conversion rates for RecipeStack Shopify app through strategic UI/UX improvements and performance optimizations.
  - Collaborated with backend teams to integrate RESTful APIs and optimize data fetching patterns, reducing client-side data requests by 45%.
- Software Engineer Intern**  
*UM PTM*

July 2023 – Oct. 2023  
*Kuala Lumpur, MY*

  - Instrumental in modernizing UM’s legacy procurement system, building a full-stack web application using PHP MVC architecture and MySQL.
  - Engineered robust server-side validation layer in PHP with MySQL constraints and triggers, preventing data corruption.
  - Collaborated with stakeholders across 5 departments in Agile sprints to gather requirements and deliver modular, maintainable code.

PROJECTS

- TeaPOS – Multi-Tenant Point-of-Sale Platform** | <https://github.com/ahmadfahrezi81/tea-pos>  
*Next.js 14, TypeScript, Supabase, PostgreSQL, Tailwind, Chart.js, shadcn/ui*

  - Architected enterprise-grade, multi-tenant SaaS POS system supporting isolated data management for unlimited organizations with tenant-scoped users.
  - Engineered normalized Supabase schema with 12+ relational tables implementing row-level security policies for bulletproof data isolation.
  - Built responsive admin dashboard leveraging Next.js 14 App Router and React Server Components for real-time sales visualization.
  - Implemented granular role-based access control (RBAC) with store-level permissions using Supabase Auth.
- Eco-Mobility Tracker** | <https://github.com/ahmadfahrezi81/Eco-Mobility-Mobile-App>  
*React Native, Next.js, TypeScript, Redux, Firebase, Expo, Google Maps API*

  - Engineered cross-platform mobile application tracking real-time carbon footprints using GPS sensors and machine learning-based transport mode detection.
  - Designed hybrid system architecture combining React Native client with Next.js SSR dashboard for scalable data analytics.
  - Integrated Google Maps Platform APIs for interactive route visualization and carbon emission heatmaps.

EDUCATION

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University of Malaya

Kuala Lumpur, MY

*Bachelor of Computer Science, Software Engineering*

*Oct. 2021 – Oct. 2025*

- **Relevant Coursework:** Data Structures & Algorithms, Database Systems, Object-Oriented Design & Implementation, Mobile App Development, Machine Learning, Web Development, Software Engineering Principles