Muhammad Mustaqeem Mashasan

Software Engineer | Tech Savvy

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Results-driven Google Cloud Certified, Software Engineer with 4+ years of full-stack development experience across Python, Node.js, Next.js, and GCP. Analytical and collaborative engineer with a proven track record at AirAsia delivering scalable microservices, automated DevOps pipelines, and ITIL/SOLID-compliant in-house systems. Adept at bridging technical execution with business needs through proactive stakeholder alignment and user-centric architecture.

🧑‍💻Skills

- Programming & Frameworks: JavaScript, TypeScript, Python (Flask), React (Next.JS), Angular, C#.NET (Core & Framework)
- Cloud & DevOps: Google Cloud Platform (GCP), GitLab CI/CD, Docker
- Databases: SQL (MSSQL, PostgreSQL, MySQL)
- Tools & Practices: UML, Figma, Visual Paradigm, Postman, SOAP UI, Jira Attlasian, Confluence Attlasian, GitLab, Docker, Linux, ITIL, Agile, SDLC, Covey Time Management, Vercel, Netlify, AI-Driven Development
- Language: Malay (Native), English (Fluent), Mandarin (Beginner)

💼Professional Experience

Software Engineer – AirAsia, Sepang, Malaysia

Aug 2023 – Present

- Held product ownership and continuous feature enhancement for the Auto Seat Assignment middleware (Python Flask), downstream API as Service (AaaS) into kiosk and webcheckin, designing an intelligent seating algorithm that optimizes aircraft weight & balance for fuel efficiency while embedding empathetic logic for passenger accessibility seated together for children and older passengers.
- Spearheaded the migration of critical vendor core including Flight Schedule Management and Departure Control Systems (DCS), into an internal, self-built AirAsia platform with centralized data governance, eliminating vendor dependencies and driving $5M USD in recurring operational savings every year.

- Engineered a real-time Progressive Web Application (PWA) using WebSockets**,** for Ground Operations staff to monitor and log flight turnaround milestones , replacing paper workflows to cut operational costs, accelerate ground turnaround times, and strictly enforce SLA compliance, fostering quick monitoring and reporting to management level decision against flight delay multiple factor.
- Maintained and modernized legacy Python applications in VM Linux Rocky and Google App Engine by migrating them to Node.js, Next.js, and containerized Cloud Run, improving background cron-job efficiency by 80% and enhancing system flexibility for Network Management Center (NMC) flight teams.
- Engineered and deployed microservices in GKE pods, Cloud Run serverless functions, implementing application load balancers, firewall rules, IAM and Cloud Monitoring, automated release cycles using GitLab CI/CD with build artifacts stored in Artifact Registry.
- Scaled and modernized enterprise legacy systems by migrating to modern tech stacks by using Node.js, Next.js and Cloud Run, resulting in saving background job tasks from hourly into a few minutes, flexibility for maintenance and enhanced user experience for network management center (NMC) flight teams.
- Collaborated with Product Managers using Jira and Functional Specification Documents (FSD), leveraging AI developer tools (Claude Code, Cursor, Antigravity Enterprise) for code-assisted execution and prototyping, compressing overall development effort and prototyping time by 80%, while 20% of input effort from technical spec planning, code review and analysis unit test passed against agreed feature required and OWASP compliance.

Skills: Python, Node.js, Next JS, GCP, GitLab, Agile, ITIL, Docker, Linux, Requirement Engineering, UML, AI-Driven Development, Claude Code, Antigravity Enterprise

Software Developer – CMA Solutions Sdn Bhd

Feb 2023 – Aug 2023

- Involved in RM10.1 million project for Angkatan Koperasi Kebangsaan Malaysia Berhad (ANGKASA) by developed customer, employer, salary deduction module (eSPGA) with user interface using Angular & APIs development in .NET 6 (C#) using Entity Framework Core, Repository Pattern, and Dependency Injection to support complex salary deduction workflows.
- Close collaboration with QA to resolve issues identified during SIT/ UAT, ensuring system functionality and non-functional components compliance against SRS.

Skills: Angular, TypeScript, .NET, REST APIs, MSSQL

Software Developer – IRIS Corporation Berhad

Apr 2022 – Jan 2023

- Contributed to the RM1.12 billion National Integrated Immigration System (NIISe) mega project for the Immigration Department of Malaysia (Ministry of Home Affairs) by preparing requirements and technical documentation such as SRS, WDD, TDD, SDD for several immigration modules such as administration, foreign and expatriates.
- Participated in close collaboration with the government sector in requirement analysis and feasibility study, system architecture design with stakeholders including PMO, technical teams, system analysts, business analysts, and solution architects.
- Designed Unified Modelling Language (UML) diagrams and mock-up screens for UI/UX using Figma, utilizing React.js for front-end development and ASP.NET Core for back-end development.

Skills/ Tools: UML, Figma, Visual Paradigm, KRISA Documentation Guideline

Programmer (Intern) – Fulkrum Interactive

Sep 2021 – Feb 2022

- Assisted in full-stack development of Inventory Management System for supply chain which co assisted developed user interface in React.js, decoupling with Laravel microservices for backend development with API CRUD in MySQL.
- Close collaboration using Agile Scrum steering committee, daily stand-up and biweekly retrospective, ensure feature delivery with stakeholders continuously from quick feedback.

Skills: React.js, Laravel, Agile, Scrum, Jira

🏫Education

Universiti Teknologi MARA (UiTM) — Bachelor of Computer Science (2018–2022)

CGPA: 3.82 | Vice Chancellor Award | Final Year Project: FACE MASK WEARING COMPLIANCE DETECTOR AMONG PUBLIC DURING COVID-19 PANDEMIC

📁 Certifications

ITIL Foundation (AXELOS, 2024) – Credential ID: 987654321

The 7 Habits of Highly Effective People (FranklinCovey, 2025)

Certified Professional for Requirements Engineering, CPRE (iSQI Group, 2026) -Credential ID: 26-CPREFL-278538-20

Associate Cloud Engineer (Google Cloud, 2026) - Credential ID: 4b0af4ef8cda4e74b4224054af9c1bbe

📽️ Projects

tApp @ Airasia | 2025

AutoSeatAssignment @ Airasia | 2024

eSPGA @ CMA Solution | 2023

NIISe @ IRIS | 2022