MUHAMMAD HARITH IQBAL BIN MOHD HANIZUN

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PROFESSIONAL SUMMARY

- Software Engineer with a proven track record of solving multi-layered technical problems in high-stakes environments since 2022, specializing in full-stack development across web, mobile, and back end services
- Passionate about the intersection of AI and development, I utilize an advanced toolset to automate repetitive processes, allowing for a primary focus on high-level strategy and innovative problem-solving.
- Learning and highly interested in agentic coding and orchestration of multiple tools to accelerate development as much as possible

EXPERIENCE

SOFTWARE DEVELOPER | SWIFT HAULAGE BERHAD | KLANG
JUNE 2024 - PRESENT

- Developed and maintained core logistics systems (Haulage, Forwarding, Transport, Delivery Tracking) and mobile applications, supporting critical internal business needs.
- Implemented front-end automation testing using Playwright and developed back-end unit tests utilizing the Bun API to ensure robust code quality.
- Managed and enhanced scalable microservices (Fastify, Express, Koa, Bun) and GraphQL endpoints, ensuring high availability and minimal downtime. Deployed using Docker (via Cloud Build) and Google Kubernetes Engine (GKE) for auto-scaling.
- Engineered high-performance, Server-Side Rendered (SSR) web applications for real-time logistics delivery tracking, including implementing OpenAPI specifications for seamless third-party vendor integration.
- Refactored extensive legacy codebase to enhance maintainability, reliability, and performance. Leveraged TypeScript and type-safety practices to significantly reduce errors within the logging and monitoring framework.
- Modernized the front-end architecture by upgrading major libraries (e.g., Ant Design v3 to v5) and refactoring the entire React codebase from Class Components and HOCs to Functional Components and Hooks.
- Introduced and standardized type-safe GraphQL code generation across the team, resulting in fewer runtime errors as tracked in Sentry monitoring.
- Designed and deployed a dedicated back-end service to manage administrative actions, ensuring stability and reliability with full test coverage.
- Pioneered the Model Context Protocol (MCP) usage, integrating AI models (e.g., Claude Sonnet & Opus) to expedite development by enabling the AI to handle browser actions, read monitoring logs, and check Google Cloud service status.
- Architected a custom Model Context Protocol (MCP) integration layer, enabling LLM-driven automation workflows to seamlessly communicate with GraphQL back-end services. This solution facilitated the automated staff email replies for logistics operations via external automation tools.

SOFTWARE ENGINEER | RECOGINE TECHNOLOGY SDN BHD | SUBANG JAYA
JAN 2023 - JUNE 2024

- Developed and launched commercial product systems, including Digital Signage, CCTV and Streaming Platforms, and a proprietary Advertisement System, utilizing Angular and Dotnet.
- Maintained and supported critical legacy systems (TMCS, WIM, ANPR, Traffic Monitoring) to ensure stable intranet deployment and reliable operations across new sites.
- Collaborated with system engineers to facilitate smooth QA cycles, including thorough support for Factory Acceptance Test (FAT), Site Acceptance Test (SAT), and User Acceptance Test (UAT).
- Integrated third-party vendor hardware (Radar, Camera, RFID detectors) with existing platforms, designing robust interfaces using Websocket and MQTT (via Mosquitto broker).
- Standardized development practices across the team, implementing Conventional Commits, Git Branching strategies, Semantic Versioning, Semantic Release, and robust linting to improve code quality and release predictability.
- Introduced Tailwind CSS replacing Angular Material grid system, resolving critical web responsive design issues and significantly boosting developer efficiency in building mobile-friendly interfaces.

APPLICATION DEVELOPMENT INTERN | RECOGINE TECHNOLOGY SDN BHD | SUBANG JAYA
SEP 2022 - MAR 2023

- Engineered a full-stack, cross-platform mobile application from scratch for the traffic enforcement system, leveraging Dotnet, Expo, and React Native.
- Managed the complete application lifecycle, including building and deploying the solution to Android, HuaweiOS, and iOS platforms.
- Integrated the Google Map API to display interactive maps showing the real-time site location of ANPR systems for highway monitoring.
- Implemented advanced features, including fuzzy search capabilities and real-time vehicle motion updates, to enhance highway data accuracy and user experience.
- Designed and visualized data insights for clients using Grafana, providing interactive analytics graphs for easier data overview and decision-making.
- Presented the system's core functionality, technical architecture, and problem-solving value proposition to multiple clients and highway operators.

EDUCATION

BACHELOR'S DEGREE (HONS) | COMPUTER SCIENCE | UNIVERSITY TECHNOLOGY MARA
EXPECTED 2026

Transtrack System
- Developed a full-stack system to manage internal vehicle assets, including booking, maintenance scheduling, and status tracking
- Github Link

Interntrack System
- Built a university internship tracking platform for students, supervisors, and advisors to log activities, give assessments, and monitor progress throughout internship sessions
- Github Link

EV Reservation System
- Created a reservation system for electric vehicle (EV) charging ports with real-time usage monitoring and charging progress tracking
- Github Link

Food Recognition (AI Project)
- Implemented a fruit recognition system using machine learning with a Kaggle dataset, leveraging image classification models for food recognition
- Github Link

DIPLOMA (CGPA 3.83) | COMPUTER SCIENCE | UNIVERSITY TECHNOLOGY MARA
GRADUATED 2023

Smart E-Tuition System
- Contributed to a multi-role tuition management platform that supports user registration, automated timetable generation, and class scheduling
- Github Link

SKILLS & TECH STACK

- TypeScript, JavaScript, C#, Java, Go, Python
- React, Angular, Next.js, React Native, Expo, TailwindCSS, Playwright
- Node.js, Dotnet, GraphQL, Docker, Kubernetes, Bun, WebSocket, Web Hook
- PostgresSQL, MSSQL, MySQL, MongoDB, Redis, ElasticSearch
- Linux, SSH, MQTT, Arificial Intelligence (AI) Prompting