

MUHAMMAD ABBAS BIN MOHAMAD PUZI

Engineering Lead / Senior Full Stack Engineer

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Professional Summary

Engineering lead and full stack developer specializing in JavaScript/TypeScript, modern web architecture, and platform transformation. Currently leading the engineering team at Bloomthis to modernize the current tech stack, strengthen engineering practices, and expand the platform toward SaaS-level scalability. Experienced in building and upgrading high-impact systems across logistics, fintech, and enterprise environments, with a track record of improving performance, reducing cloud costs, and delivering reliable, scalable products from legacy modernization through greenfield development.

Skills

Languages: JavaScript, TypeScript, HTML, CSS, C#, PHP, Python, Go.

Frontend: React.js, Next.js, Angular, Astro, Tailwind CSS, Bootstrap

Backend: Node.js, Express.js, Hono, dotNET Framework, Flask, Slim, REST APIs

Databases & ORM: PostgreSQL, MySQL, MSSQL Server, SQLite, Prisma, Drizzle ORM, TypeORM

Cloud & DevOps: AWS, Docker, Linux, Supabase, Firebase, Grafana, Sentry, AWS CDK

Testing & Tools: Jest, Vitest, Unit Testing, Integration Testing, Postman, Jira, Git

Architecture & Practices: SaaS platform design, multi-tenant systems, ERP modernization, infrastructure as code, observability, design systems, schema management, technical mentorship

Professional Experience

Senior Software Engineer / Engineering Lead

Bloomthis | May 2025 – Present

- Leading engineering efforts to modernize and elevate BloomThis's technology stack, with a focus on scalability, maintainability, cost efficiency, and SaaS-readiness.
- Driving the evolution of OMNI V2, an internal ERP platform that handles thousands of orders daily across order state management, customer and order information, curation workflows, delivery operations, products, and SKU management.
- Expanded the platform to support integrations across multiple sales and operational channels including TikTok, GrabMart, Shopify, retail POS, and other marketplaces.
- Designed and implemented the infrastructure-as-code foundation to manage Lambda services and deployment workflows more consistently, while improving operational control and cloud cost management.
- Reduced AWS infrastructure cost by 40% by optimizing services and deployment architecture, including more efficient routing-related workloads.
- Improved platform performance and reliability by using Sentry to monitor application issues and identify performance bottlenecks, including database-level hotspots, and continuously driving optimizations from those findings.
- Built a dispute handling mechanism that reduced dispute amounts by 40% and improved resolution time by 60%.
- Led migration of the fleet management platform to V2, integrating mapping and routing improvements that increased routing accuracy by 25%.
- Developed Driver App V2 as a PWA using TypeScript and Server-Sent Events (SSE) for more responsive real-time location tracking.
- Implemented stronger user management by revamping authentication and authorization flows, enabling more granular access control and laying the groundwork for future multi-tenant development.

- Introduced Bytebase for centralized schema management and version control across environments.
- Architected and implemented live driver tracking and a real-time order tracking experience backed by AWS Lambda and Redis, improving delivery visibility, handling high traffic efficiently, and reducing customer support volume related to order status updates.
- Designed and implemented a Redis-backed BullMQ automation flow for TikTok AI replies, enabling automated handling of out-of-coverage customers through AI-guided choices, reducing operational customer service effort and improving retention of orders affected by delivery coverage limitations.
- Led technical reviews, mentored junior engineers, and helped establish stronger coding standards and engineering practices across the team.

Web Developer

CTOS Data Systems | Jan 2024 – May 2025

- Implemented Grafana monitoring for frontend applications, reducing incident response time by 40% and improving reliability.
- Developed new features using Next.js, contributing to a 35% improvement in application performance through SSR-focused enhancements.
- Designed and implemented a micro-frontend architecture to improve modularity and team collaboration.
- Built a reusable design system that increased development efficiency by 30% across multiple projects.
- Modernized legacy Angular and Backbone.js applications while maintaining platform stability and business continuity.

Software Engineer

FPT Software (Petronas Digital) | Apr 2023 – Dec 2023

- Built features for a pipeline management platform using C#, .NET, and Angular.
- Contributed to the transformation of a single-tenant system into a multi-tenant SaaS platform serving multiple enterprise clients.
- Developed RESTful APIs to support seamless integration between backend and frontend services.
- Implemented unit testing and participated in code reviews to maintain code quality and delivery standards.

Software Developer

Maybank | Jan 2022 – Apr 2023

- Developed and maintained a loan processing web application using Node.js and React.
- Delivered critical system updates and optimizations for a business-important internal platform.
- Implemented secure deployment practices with PM2, improving operational stability and maintainability.
- Led refactoring initiatives that reduced technical debt by 35%.
- Created API documentation for microservices, reducing integration time by 40%.
- Worked closely with cross-functional teams to align technical delivery with business requirements.

Selected Projects

OMNI V2 (BloomThis)

- Internal ERP modernization project built to support BloomThis operations at scale and process thousands of orders every day.
- Covers end-to-end workflows including order state management, order and customer information, curation processes, delivery and fleet operations, and centralized product and SKU management.
- Supports integration across multiple commerce channels and marketplaces including TikTok, GrabMart, Shopify, retail POS, and more.
- Strengthened platform foundations through infrastructure as code, better observability, cost optimization, stronger user management, and future-ready multi-tenant support.

Enterprise Loan Processing System

- Led backend development for an award-winning enterprise loan processing system.
- Contributed to performance optimization and resolution of critical bottlenecks.
- Provided L2 support and acted as a bridge between technical and business stakeholders.
- Project recognized with the AIBP 2022 Malaysia Enterprise Innovation Award.

Walimah.co

- Built a digital wedding invitation platform using Next.js, Neon Serverless Postgres, and JWT authentication.
- Supported 1,000+ users with real-time customization and production deployment on Vercel with analytics.

EzyDurian Putrajaya

- Built an integrated delivery management system using Lalamove API, Bun, Hono, and Turso SQLite.
- Improved delivery workflow speed by 70%.

Education

Bachelor in Islamic Studies | University of Malaya, Kuala Lumpur | Graduated 2021
GPA: 3.54 / 4.00 | Dean's List for 4 terms | Media Society President | Led an outreach program