

# Mohamed Siddiq Bin Habi Muhammad

**Lead Backend Engineer · NestJS / Node.js · Insurance Platforms serving 1M+ users**

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*Open to: Hybrid roles in Klang Valley · Remote (SEA / APAC timezones) · Notice period: 3 months*

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## Professional Summary

Lead Backend Engineer with 12+ years building cloud-native platforms across insurance and fintech. Drove the modernization of a legacy Node.js monolith into a NestJS microservices architecture now serving 1M+ active users at 99.9% uptime, processing 10M+ requests per month. Pioneered AI-augmented engineering practice (Claude Code, Cursor, MCP server integration) lifting team productivity by 30%. Lead a 5-engineer squad and own production reliability for one of Malaysia's largest digital insurance platforms. Hands-on expert in Node.js, NestJS, TypeScript, React.js, MongoDB, PostgreSQL, and CI/CD on AWS, Azure, and GCP.

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## Core Skills

**Backend:** Node.js, NestJS, Express.js, TypeScript, JavaScript (ES6+), Golang (Gin, Fiber), Java, Spring Boot, Python

**APIs & Architecture:** RESTful APIs, GraphQL, Microservices, Modular Monolith, Swagger/OpenAPI, Asynchronous Job Queues, API Gateway, Event-Driven Patterns

**Auth & Security:** JSON Web Token (JWT), OAuth2, Passport.js, Role-Based Access Control (RBAC), SSL/TLS, API Security

**Frontend:** React.js, Next.js, Angular, Vue.js, Tailwind CSS, Shadcn/UI, Redux, Zustand, HTML5, CSS3

**Databases & Storage:** MongoDB, PostgreSQL, MySQL, MariaDB, Microsoft SQL Server, Redis, Amazon S3, MinIO, TypeORM

**Cloud & DevOps:** Docker, Docker Swarm, Podman, GitLab CI/CD, GitHub Actions, PM2, Nginx, AWS, AWS Lightsail, Microsoft Azure, Google Cloud Platform (GCP)

**AI-Assisted Development:** Claude Code, Cursor, Windsurf, Codex CLI, Model Context Protocol (MCP) server integration, prompt engineering, AI workflow automation

**Leadership & Practices:** Technical Leadership, Mentoring, Sprint Planning, Code Review, Architecture Decision Records (ADRs), Cross-functional Collaboration, Agile/Scrum

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## Professional Experience

Etiqua Group (Maybank Ageas Holdings Bhd) — Kuala Lumpur, Malaysia

*Etiqua — one of Malaysia's largest general insurance providers*

**Lead Backend Engineer / Etiqa+ BAU Lead** · March 2021 – Present

*Leads a 5-engineer squad across mobile and backend. Career path: Senior Backend Developer (2021–2022) → Lead Backend Developer (2022–2024) → Etiqa+ BAU Lead (2024–Present).*

- Lead production operations of the Etiqa+ insurance platform serving **1M+ active users** — sustaining **99.9% uptime** across mobile, web, and backoffice systems.
- Pioneered the team's **AI-augmented engineering practice** (Claude Code, Cursor, Windsurf, Codex CLI, MCP server integration) — lifted team productivity **30%** and accelerated documentation, code generation, and review workflows.
- Led migration of a legacy Node.js monolith to NestJS microservices — shipped **200+ REST and GraphQL endpoints** now processing **10M+ requests per month**.
- Architected the platform's authentication and authorization framework (JWT, OAuth2, Passport.js, RBAC) — reused across Etiqa+, Smile App, and Backoffice, eliminating duplicated auth logic across 3 product lines.
- Directed MariaDB → MongoDB migration — cut data access latency by **~40%** and unlocked schema-flexible product modeling.
- Built an in-house URL shortener (Node.js) replacing Firebase Dynamic Links ahead of Google's deprecation — handles **50,000+ redirects/month** at 99.9% uptime, with built-in analytics and privacy controls.
- Designed and launched the Centralized Product Management System (CPMS) — unified insurance product data across distribution channels, reducing data inconsistencies by **90%** and giving product teams a single source of truth.
- Embedded a SurveyJS-based feedback and analytics platform into the internal admin panel — improved data collection efficiency by **40%**.
- Stood up CI/CD on GitLab + Docker Swarm + PM2 — improved deployment consistency and enabled a **weekly release cadence** across production services.
- Mentor a team of 5 engineers and codified team standards for code quality, testing practices, code review, and documentation.

**Stack:** NestJS, Node.js, TypeScript, GraphQL, REST, MongoDB, PostgreSQL, MariaDB, Redis, Docker Swarm, GitLab CI/CD, PM2, JWT, OAuth2, Passport.js

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## Cybersolution Technologies Sdn Bhd — Kuala Lumpur, Malaysia

**Software Developer** · April 2014 – February 2021

- Delivered enterprise systems for government and corporate clients — including the Survey Management System (SMS) and Sistem Kewangan Bersepadu (SKB) — shipped **5+ production applications**.
- Built full-stack modules in Java, Node.js, Angular, and React.js with MySQL and Microsoft SQL Server on Dockerized microservices.
- Automated reporting pipelines — cut manual data entry by **60%** and eliminated recurring errors in critical reports.
- Established GitLab CI/CD for automated test and deployment — compressed release cycles from **2 days to 4 hours**.
- Hardened client-facing apps with SSL/TLS to meet government compliance — delivered engagements with **95% client satisfaction**.

**Stack:** Java, Node.js, Angular, React.js, Docker, MySQL, MSSQL, GitLab CI/CD, Microservices, Agile/Scrum

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## Silverlake Axis Sdn Bhd — Kuala Lumpur, Malaysia

**Programmer, Web Development** · September 2013 – March 2014

- Built the Bank Appointment System (BAS) for queue management across **50+ bank branches** — reduced customer wait times by **35%**.
- Led a 3-person team across frontend and backend; delivered on schedule against fixed performance requirements.

**Stack:** Java (UP Framework), JavaScript, jQuery, HTML5, CSS3, MS SQL Server

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## Education

**Bachelor of Science (Honours), Software Engineering** — Asia Pacific University of Technology and Innovation (APU), Kuala Lumpur · 2011 – 2013

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## Languages

Bahasa Malaysia (Native) · English (Advanced) · Tamil (Conversational)