

# HAIKAL AZIM ABU BAKAR

Software Engineer

## ABOUT ME

Full-Stack Software Engineer with 4+ years of experience delivering scalable web and backend systems. Experienced in architecting enterprise e-commerce platforms using Next.js, NestJS, PostgreSQL (Prisma), Redis, and AWS. Strong background in secure authentication (JWT, OAuth, 2FA), granular RBAC (65+ permissions), Stripe payment integration, and cloud-native deployment. Proven ability to design clean, maintainable systems across frontend and backend boundaries.

## PROFESSIONAL EXPERIENCE

Acodes Tech Sdn Bhd | 2021 – Present

### Software Engineer

- Architect and develop full-stack e-commerce platforms using Next.js, NestJS, PostgreSQL (Prisma), and Redis.
- Designed secure authentication and authorization systems (JWT, OAuth, 2FA, RBAC with 65+ permissions).
- Implemented Stripe payment workflows and wallet-based transaction logic for a gamified commerce platform.
- Built SSR admin dashboard with reusable component architecture and role-aware UI.
- Designed AWS cloud deployment (ECS Fargate, RDS Aurora, S3, CloudFront) with CI/CD automation.
- Integrated Web3 features including MetaMask authentication, NFT minting, and IPFS asset handling.

Bestpay Solutions Sdn. Bhd. | Oct 2020 – Sep 2021

### Mobile Application Developer

- Developed and deployed Flutter mobile applications for rider, merchant, and customer platforms.
- Integrated REST APIs and push notification services.
- Built supporting web tools using Laravel for operational workflows.

## EDUCATION

Universiti Teknologi MARA (UiTM) | 2018 – 2020

### Bachelor of Computer Science (Hons.)

Universiti Teknologi MARA (UiTM) | 2015 – 2018

### Diploma of Computer Science

## CONTACT

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## TECHNICAL SKILLS

### Frontend:

Next.js 15, React.js, TypeScript, Zustand, Recoil, Tailwind CSS, shadcn/ui

### Backend:

NestJS, Node.js, PostgreSQL, Prisma ORM, Redis, REST API design

### Security & Auth:

JWT, OAuth, 2FA, RBAC (fine-grained permissions), session management

### Cloud & DevOps:

AWS (ECS Fargate, RDS Aurora, S3, CloudFront), CI/CD pipelines

### Mobile & Realtime:

Flutter 3, WebSocket, Riverpod, BLoC, ObjectBox, SQFLite

### Payments & Web3:

Stripe integration, MetaMask authentication, NFT minting, IPFS

## LANGUAGES

- Bahasa Melayu - Fluent
- English - Fluent