

IHSANUL HAK IK

Software Engineer · Backend & Full Stack

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SUMMARY

Backend-focused software engineer with 1+ years shipping API services, real-time systems, and production web applications. Consistent end-to-end ownership — database schema design through Linux server deployment. Currently deepening expertise in systems programming through Rust and open-source payment infrastructure.

EXPERIENCE

Full Stack Developer — G3 Interactive, Kochi

Feb 2026 – May 2026

- Designed and built enterprise workflow software for asbestos contractors (customer management, BOQ generation, inventory, labour coordination) — sole engineer on the backend.
- Architected NestJS + TypeScript + MySQL backend for multi-tenant enterprise; Linux VPS — Nginx reverse proxy, SSL provisioning, and deployment pipelines.

Junior Software Developer — SpaceAI, Remote

Oct 2025 – Feb 2026

- Shipped production UI modules for multiple SaaS products in React, Next.js, and TypeScript — render performance and component architecture focus.

Backend Developer Intern — Autobse, Kochi

May 2025 – Sep 2025

- Built GraphQL API services with NestJS + PostgreSQL for a real-time vehicle auction platform — schema design, resolver implementation, relational data modelling.
- Integrated Redis Pub/Sub for real-time state propagation; implemented JWT + OAuth2 auth with token refresh, session validation, and protected route middleware.

PROJECTS

AI Mock Interview Platform

github.com/ikihsan/Mock_interview

Node.js · Express.js · MongoDB · Google Gemini API · Next.js 15 · face-api.js

- Separate Express + MongoDB backend and Next.js frontend. Five data models covering the full interview lifecycle; JWT auth with bcrypt; layered MVC backend structure.
- Gemini API generates questions by role and experience level; face-api.js captures real-time emotion data; speech-to-text records answers; Recharts visualizes results.

SecureTerminal — Private Messaging Platform

chat.ikihsan.tech · github.com/ikihsan/SecureTerminal-PrivateChatApp

TypeScript · Next.js 14 · Convex · bcrypt

- End-to-end encrypted real-time chat — ephemeral media with configurable TTL, mutual handshake peer authentication, and device fingerprinting.
- bcrypt hashing, attempt-limited login with IP banning, session fingerprinting. TypeScript 75.9% of codebase; deployed to production at chat.ikihsan.tech.

Atomswitch — Open Source Payment Orchestrator

github.com/ikihsan/atomswitch

Rust

- Intelligent PSP failover, retry logic, and health monitoring across Stripe, Razorpay, and PayU. Primary Rust systems programming project — ownership semantics, async/await patterns, and production-grade error handling.

TECHNICAL SKILLS

Languages	TypeScript, JavaScript, Rust (active development), Python, C, C++
Backend	Node.js, NestJS, Express.js, GraphQL, REST APIs, WebSockets
Frontend	React.js, Next.js, TailwindCSS, Zustand
Databases	PostgreSQL, MySQL, MongoDB + Mongoose, Prisma ORM, Redis
Infrastructure	Linux (Debian/Ubuntu), Nginx, Docker, SSL/TLS, VPS management
Auth & Security	JWT, OAuth2, bcrypt, device fingerprinting, session management
Real-time	Redis Pub/Sub, WebSockets, Convex serverless
AI Integration	Google Gemini API, face-api.js, emotion detection pipelines

EDUCATION

B.Tech in Computer Science Engineering — KMCT College of Engineering

2021 – 2025 · CGPA 7.66

Higher Secondary (Computer Science) — PPMHSS Kottukara

2019 – 2021 · 96.9%