IHSANUL HAK IK

Software Engineer

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Software engineer with commercial experience in Rust payment systems and Node.js backends. Delivered a live multi-tenant backend and Flutter business software spanning purchasing, inventory, billing and ledgers. Experienced in database design, Linux deployment and AI integration. Studying Rust for kernel development, with interests in cybersecurity and ethical hacking.

EXPERIENCE

Software Developer | Harwex Technology, Calicut Jun 2026 - Present

- Configured multi-currency fee transfers from merchant to admin wallets on successful transactions, with percentage charges above a threshold and minimum charges below it.
- Developed reconciliation features in Rust for scheduled and manual sync via file uploads and API pulls, with configurable import and engine settings.
- Extended RBAC with configurable custom roles and merchant-specific permissions.
- Designed a PostgreSQL audit framework with append-only records, per-row SHA-256 integrity checks and atomic commits with business changes.

Full Stack Developer (Contract) | G3 Interactive, Kochi Feb 2026 - May 2026

- Delivered a live NestJS/TypeScript/MySQL backend for an asbestos-removal business, serving its Flutter app and web admin portal across multiple tenants, supervisors and managers.
- Implemented inventory and usage-based bill of quantities (BOQ) workflows; managed Linux VPS deployment with Nginx and SSL/TLS.

Junior Software Developer | SpaceAI, Remote Oct 2025 - Feb 2026

- Used Claude to analyze AutoCAD export revisions and built comparison views for Space BIM.
- Delivered production SaaS UI modules in React, Next.js and TypeScript, focusing on component architecture and rendering performance.

Backend Developer Intern | Autobse, Kochi May 2025 - Sep 2025

- Built NestJS/GraphQL APIs and PostgreSQL data models for a real-time vehicle auction platform, including composite indexes.
- Integrated Redis Pub/Sub and JWT/OAuth2 authentication with token refresh and session validation.

SELECTED PROJECTS

Qualitydates Business Application Flutter, Dart, Firebase

- Built a complete business application covering purchase orders, inventory, shop management, billing, ledgers and analytical reports, with a Flutter frontend and Firebase backend.

TripInsta Travel Platform tripinsta.in

- Built a custom backend enabling a travel team to publish tour packages, update homepage content and review customer enquiries.

SecureTerminal Messaging App github.com/ikihsan/SecureTerminal-PrivateChatApp

- Built a real-time messaging app with Next.js, TypeScript and Convex, featuring connection codes, bcrypt password hashing and configurable media expiry.

TECHNICAL SKILLS

Languages: Rust, TypeScript, JavaScript, Dart, SQL; C and C++ fundamentals
Backend and data: Node.js, NestJS, REST APIs, GraphQL, PostgreSQL, MySQL, Redis
Web and mobile: React, Next.js, Flutter, Firebase
Infrastructure: Linux, Nginx, Docker, Git; application/database separation across personal VMs
AI integration: OpenAI SDK, MCP, multi-agent orchestration

EDUCATION

B.Tech in Computer Science Engineering 2021 - 2025
KMCT College of Engineering | CGPA: 7.66