

Akib Ahmed

Entry-Level Software Engineer | Full-Stack (MERN / PERN) • Flutter

Dhaka, Bangladesh | akib4418@gmail.com | [linkedin.com/in/akibahmed229](https://www.linkedin.com/in/akibahmed229) | github.com/akibahmed229 | akibahmed-portfolio.vercel.app

SUMMARY

Graduate in Computer Science and Engineering with experience in full-stack development, both on the MERN and PERN stacks. I have experience creating full applications, starting with database design up to a responsive frontend, and I come to any project with a problem-solving attitude. Flutter and Clean Architecture are the tools I employ in mobile development to develop well-structured and maintainable cross-platform applications. Skilled in Linux, using it for development, system configuration, and tooling to enhance workflow efficiency and technical flexibility.

EDUCATION

B.Sc. in CSE <i>Daffodil International University</i>	2022 - 2025
Higher Secondary Certificate (HSC) <i>BCIC College</i>	2018 - 2020
Secondary School Certificate (SSC) <i>BCIC School</i>	2016 - 2018

PROJECTS

Design and Implementation of Mobile App named RepairShop <i>Final Year Project</i>	Fronted, Backend
Tech: Flutter (Clean Architecture, BLoC), TypeScript, Express.js, PostgreSQL, Drizzle ORM, WebSocket, Firebase FCM	
- Architected and deployed a Flutter application to AWS EC2, digitizing repair shop workflows with secure JWT-based authentication and offline-first ticket synchronization. - Implemented role-based access control across 3 user roles and SQLite cache synchronization with conflict resolution for seamless offline-to-online ticket management. - Integrated real-time bi-directional chat with WebSockets and Firebase FCM push notifications for workflow status updates.	
TechNotes — MERN-Powered Ticket Tracker <i>Personal</i>	Fronted, Backend, Live
Tech: MERN Stack, Node.js, Express.js, React, MongoDB	
- Built a full-stack note management app for a digitalized repair shop workflow, featuring JWT authentication, role-based access control, and secure CRUD operations. - Developed a secure Express.js REST API with MongoDB/Mongoose, bcrypt password hashing, token refresh, rate limiting, CORS, and centralized error handling.	
NixOS Infrastructure & Declarative System Automation <i>Homelab Services</i>	Config
Tech: NixOS, Nix Flakes, Home Manager, Nixpkgs, Linux system administration, Bash, Systemd, Sops, Git	
- Built a fully declarative NixOS system using Flakes & Home Manager, enabling reproducible multi-host environments with automated installation. - Designed a modular architecture with custom library abstractions (mkSystem, mkFlake, mkScanPath) to dynamically compose systems, reducing manual configuration and improving scalability.	

SKILLS

Languages: JavaScript, TypeScript, Dart

Frameworks: React, Next.js, Flutter (BLoC, Clean Architecture), Express.js | **Styling:** Tailwind CSS

Databases: PostgreSQL, MongoDB, SQLite, Drizzle ORM | **APIs:** RESTful, WebSocket, Firebase FCM

DevOps: Git, Docker, Linux, Nix, Bash, AWS (EC2, VPC, IAM) | **Familiar:** Kubernetes, Terraform, Ansible, CI/CD (Jenkins)