Md Fayaj Nakib

Software Engineer · Backend Development · DevOps & CI/CD

+8801920899997 | fayaj.nakib.dev@gmail.com | linkedin.com/in/fayajnakib | github.com/Fayaj-Nakib | Dhaka, Bangladesh

SUMMARY

Software Engineer with 2+ years of experience developing, testing, and deploying production applications. Experienced in backend development, REST APIs, PostgreSQL, automated workflows, and Linux-based infrastructure. Built and maintained IoT integrations, payment automation, and reliable background processing systems. Hands-on with Docker, GitHub Actions CI/CD, and full-stack development. Competitive programming background with a strong interest in software engineering, cloud infrastructure, DevOps, and intelligent automation.

TECHNICAL SKILLS

Programming: PHP, Python, JavaScript, TypeScript
Backend: Laravel, REST APIs, Authentication & Authorization, Queues, Background Jobs, Webhooks
Databases: PostgreSQL, MySQL, Redis, PostGIS, SQL Indexing & Query Optimization
DevOps & Tools: Git, GitHub Actions, Docker, Linux, Nginx, CI/CD, VPS Administration, SSL
Frontend: React, Next.js, Tailwind CSS
Integrations: bKash, Tile38, Pusher, RFID, IoT Devices

PROFESSIONAL EXPERIENCE

- **Cassetex Ltd.** *February 2025 – Present*
  Associate Software Engineer Mohakhali DOHS, Dhaka

  – Own backend development for a production EV battery-swapping platform using **Laravel 12 and PostgreSQL**, supporting **15 IoT swap cabinets, 90+ batteries, 11K+ completed swaps**, and **27K+ remote hardware commands**.
  – Developed automated **bKash payment processing** with transaction matching, idempotent webhooks, and exception-handling workflows.
  – Implemented real-time **GPS geofencing using Tile38**, with cooldown and multiple-reading validation to reduce false hardware triggers.
  – Built a **queued automation engine** that evaluates driver balances, geofence events, and payment conditions to trigger hardware operations.
  – Implemented **role-based access control** with 10 roles and 86 permissions, including scoped API keys for IoT communication.
  – Optimized PostgreSQL queries, implemented **zero-downtime index migrations**, and developed **40+ feature tests**; maintain three Linux VPS environments with Nginx, SSL, queue workers, and backups.

- **Eutropia IT** *July 2024 – December 2024*
  Junior Software Engineer Mohammadpur, Dhaka

  – Developed Laravel and React / Next.js applications; improved database performance by eliminating N+1 queries and adding indexes while refactoring three legacy modules.

PROJECTS

- **DevBoard — Multi-Tenant Project Management SaaS** Live Demo
  Laravel 13, Next.js, TypeScript, PostgreSQL, Docker, GitHub Actions, Pusher GitHub Repository

  – Developed a multi-tenant SaaS platform with workspace- and project-level RBAC, TOTP two-factor authentication, and **51 cross-tenant isolation tests**.
  – Built a workflow automation engine supporting five trigger types, asynchronous jobs, execution logs, and real-time updates through Pusher private channels.
  – Implemented **HMAC-SHA256 signed webhooks** with retry handling and GitHub PR integration; configured **76 automated tests in CI** and deployed using Render, Neon, and Vercel.

EDUCATION

- **B.Sc. in Computer Science and Engineering** *June 2020 – June 2024*
  University of Asia Pacific Dhaka, Bangladesh

  – **CGPA: 3.60 / 4.00** | Vice Chancellor's Award (Fall 2020) | Dean's Award (Fall 2022).

ACHIEVEMENTS

Competitive Programming: Participated 4 times in **ICPC Asia Preliminary (2020–2023)**; secured **4th place** in the Intra-UAP Programming Contest (2022).

CERTIFICATIONS

IBM Back-End Development Professional Certificate — IBM / Coursera (2026)
IBM DevOps and Software Engineering Professional Certificate — IBM / Coursera (2026)