

Md Fayaj Nakib

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SUMMARY

Full-stack software engineer with 2 years of production experience building enterprise-grade web applications in PHP (Laravel), React, and Next.js. Specialises in IoT-integrated fleet systems, REST API architecture, and payment service integrations with hands-on DevOps depth across Docker, Kubernetes, CI/CD pipelines, and cloud-native microservices. Proven track record owning features end-to-end within Agile sprint cycles, backed by IBM Professional Certifications in DevOps & Software Engineering and four consecutive ICPC Preliminary rounds.

EXPERIENCE

- Cassetex** February 2025 – Present
Associate Software Engineer Mohakhali DOHS, Dhaka
 - Designed a modular REST API (30+ endpoints) with multi-guard authentication: Laravel Sanctum for admin/franchisee, PIN-based driver auth, API-key auth for IoT cabinet devices, and Microsoft Azure AD SSO; enforced fine-grained RBAC using Spatie Permissions with franchisee-scoped query isolation.
 - Optimized battery telemetry queries using SQL window functions to fetch latest BMS metrics per device in a single pass across 40+ table schema — eliminating N+1 patterns and reducing payload size for large fleet datasets.
 - Integrated bKash payment webhooks with idempotent reconciliation logic and structured webhook log models; built HERE Technologies geofencing with real-time point-in-polygon violation detection dispatched via Laravel queue jobs.
 - Implemented Observer-driven async processing and queue workers for 1,000s of daily cabinet telemetry and battery-swap events — including automatic command dispatching to physical charging cabinets.
 - Built interactive React dashboards with Leaflet map visualization, Chart.js/Recharts analytics, context-based permission-gated rendering, and real-time notification delivery across admin, franchisee, and driver roles.
- Eutropia IT** July 2024 – December 2024
Junior Software Engineer Mohammadpur, Dhaka
 - Developed client-facing web applications with Laravel (PHP) backend and React / Next.js frontend — from requirements gathering through to deployment, collaborating closely with cross-functional teams in an Agile environment.
 - Refactored three legacy modules using cleaner object-oriented patterns, eliminated N+1 query issues, and introduced targeted indexing — measurably improving API response times; resolved production bugs under time pressure and maintained clear technical documentation.

PROJECTS

- FleetBook — Multi-Tenant Vehicle & Fleet Management SaaS (in progress)** 2026
Laravel, Inertia.js, React, TypeScript, PostgreSQL + PostGIS, Redis, Laravel Reverb, Docker
 - Designing a production-grade multi-tenant SaaS using a modular monolith architecture with bounded contexts (Vehicles, Trips, Payments, Finance, Location, Notifications) communicating through domain events.
 - Financial data modelled in integer minor units via brick/money to eliminate floating-point errors; real-time location via Laravel Reverb WebSockets; geofencing handled with PostGIS spatial queries.
- DevBoard — Developer Project & Task Tracker** 2026
Laravel (PHP), Next.js, TypeScript, PostgreSQL, Docker, GitHub Actions [\[repo\]](#)
 - Multi-tenant project management platform with Kanban boards, workspaces, role-based access control, JWT authentication, and queue-based notifications.
 - Full CI/CD pipeline to managed services — frontend on Vercel, backend on Render, database on Neon — demonstrating end-to-end deployment across a modern managed stack.

SKILLS

- Backend:** PHP (Laravel), Python, REST API Design, OOP & SOLID Principles, JWT / Sanctum Auth, Laravel Queues
- Frontend:** React, Next.js (SPA / SSR), TypeScript, JavaScript, HTML5, CSS3, TailwindCSS
- Databases:** MySQL, PostgreSQL — schema design, query optimisation, indexing
- DevOps & Cloud:** Docker, GitHub Actions CI/CD, Linux, Kubernetes, OpenShift, serverless
- Practices:** Agile/Scrum, Git, Microservices, TDD, BDD, Monitoring & Observability

CERTIFICATIONS

- IBM DevOps and Software Engineering Professional Certificate(15 courses) — IBM
- IBM Applied DevOps Engineering Professional Certificate(9 courses) — IBM
- IBM DevOps, Cloud and Agile Foundations Specialization(3 courses) — IBM
- Foundations of Project Management, Technical Support Fundamentals — Google

EDUCATION

- B.Sc.(Engg) in Computer Science and Engineering** June 2020 – June 2024
University of Asia Pacific Dhaka, Bangladesh
 - CGPA: 3.60 / 4.00 | Academic honours: Vice Chancellor's Award (Fall 2020), Dean's Award (Fall 2022).

ACHIEVEMENTS & ACTIVITIES

- Competitive Programming:** 4× ICPC Asia Preliminary participant (2020–2023);4th, Intra-UAP Programming Contest (2022).
- Volunteer:** ACM ICPC World Finals Dhaka (2022); Ada Lovelace Celebration organised by BdOSN (2022).
- Leadership:** Event Coordinator & Executive, UAP Film & Photography Club (2022–2024)