

# MD. SAKIR AHMED

Cloud-Native Backend Engineer – PHP/Laravel, Node JS, Golang, Microservices, Kubernetes

enr.sakir@gmail.com • +880 1304-734623 • West Agargaon, Dhaka 1207, Bangladesh (Open to Relocation)

[linkedin.com/in/mdsakir](https://www.linkedin.com/in/mdsakir) • [gitlab.com/mdsakir](https://gitlab.com/mdsakir) • [sakir.bd](https://sakir.bd)

## PROFESSIONAL SUMMARY

Senior Backend Engineer with 5+ years building scalable APIs and microservices for platforms serving 30M+ users. Designs high-availability backend systems that improve scalability, reduce infrastructure costs, and increase platform reliability. Strong background in distributed systems, CI/CD automation, and code quality (SonarQube, PHPStan). Experienced leading development teams and mentoring engineers on microservices architecture and best practices.

## TECHNICAL SKILLS

**Backend Development & Architecture:** PHP (Laravel, Lumen), Node.js, Golang, RESTful APIs, Microservices Architecture, Monolithic Systems, API Gateway, Service Mesh, Event-Driven Architecture

**Databases & Performance:** MySQL, PostgreSQL, Redis, Query Optimization, Database Indexing, Clustering, Performance Tuning, Database Sharding, Caching Strategies

**DevOps & Cloud Infrastructure:** AWS (EC2, RDS, S3), Docker, Kubernetes (K8s), Jenkins, GitLab CI/CD, Infrastructure Automation, High Availability, Scalability, Load Balancing, Horizontal Scaling, Auto-scaling

**Message Systems & Monitoring:** RabbitMQ, Elasticsearch, Kibana, Centralized Logging, Application Monitoring, Performance Metrics

**Code Quality & Standards:** SonarQube, PHPStan, Static Code Analysis, Code Coverage, Unit Testing (PHPUnit), Code Review, Best Practices

**Tools & Methodologies:** Nginx (Web Server, Reverse Proxy, Load Balancing), Linux, Git, Agile/Scrum, Cross-Functional Collaboration, Stakeholder Management, Team Mentorship

## PROFESSIONAL EXPERIENCE (5+ YEARS)

### Lead Software Engineer | July 2024 – Present

Grameenphone (via eGeneration PLC) | GP House, Dhaka, Bangladesh

- Build and maintain microservices for offers, recharge, and value-added services for MyGP app serving 30M+ users with 99.9% uptime and sub-second API responses
- Reduced critical API response time from 16-21s to 0.8s using Redis caching and async processing, eliminating service calls in loops
- Deployed Nginx edge caching for public APIs, reducing backend execution and database load by 60% across 10M+ daily requests
- Optimized a token API with token-based pre-validation, cutting unnecessary database queries by 60%
- Developed microservices using Laravel/Node.js on Kubernetes with CI/CD pipelines (Docker, GitLab, Jenkins) for zero-downtime deployments

### Senior Web Development Engineer | July 2023 – June 2024 (1 years)

Grameenphone (via eGeneration PLC) | Dhaka, Bangladesh

- Architected secure healthcare platform (eLogbook) with encrypted communications, audit logging, and role-based access control
- Led backend development for UNICEF GIS Dashboard with PostgreSQL optimization, strategic indexing, and multi-layer caching (Redis + Nginx)
- Manage team of 10 developers through agile sprints, architectural decisions, and on-time delivery
- Designed and oversaw system architecture and development strategy for key projects such as parcel & courier booking, restaurant management, corporate websites, and custom management systems.

## Senior Web Development Engineer | July 2022 – June 2023 (1 years)

eGeneration PLC | Dhaka, Bangladesh

- Led end-to-end technical leadership, including client meetings, requirement analysis, and translating business needs into scalable system architecture for enterprise-grade solutions.
- Mentor junior engineers on Laravel best practices, database optimization, and microservices architecture through code reviews

## Web Application Developer | May 2021 – June 2022 (1 years)

eGeneration PLC | Dhaka, Bangladesh

- Led end-to-end technical leadership, including client meetings, requirement analysis, and translating business needs into scalable system architecture for enterprise-grade solutions.
- Designed and oversaw system architecture and development strategy for key projects such as parcel & courier booking, restaurant management, corporate websites, and custom management systems.

## EDUCATION

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### Bachelor of Science in Software Engineering | 2017 – 2021

Daffodil International University, Dhaka, Bangladesh

### Higher Secondary Certificate | 2015 – 2016

Bangladesh Navy College Dhaka

## PROFESSIONAL CERTIFICATIONS

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- Laravel Advanced Certification
- Docker for Developers (Hands-On)
- CI/CD with Git, GitLab & Jenkins
- Kubernetes Fundamentals for Backend Engineers

## KEY PROJECTS

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### MyGP - Grameenphone

- Developed high-performance backend services for offers, recharge & value-added services
- Architected polyglot microservices deployed on Kubernetes with automated CI/CD pipelines
- Optimized performance using Redis caching, Nginx load balancing, and database tuning

**Tech Stack:** PHP, Laravel, Golang, Node.js, MySQL, Redis, RabbitMQ, Docker, Kubernetes, Nginx

### GIS Dashboard - UNICEF

- Led backend architecture and API development for a large-scale GIS visualization platform
- Built optimized APIs serving geographic and statistical datasets with complex queries
- Reduced API response time from **~5 seconds to ~300 milliseconds** using caching
- Coordinated backend–frontend integration to deliver production-ready solution

**Tech Stack:** PHP 8.4, Laravel, Vue JS, MySQL, Redis, Nginx, Ubuntu VM, Leaflet JS

### eLogbook - Bangladesh College of Physicians and Surgeons (BCPS)

- Designed microservices architecture for a healthcare compliance platform
- Led a **10-member development team**, handling requirement analysis and sprint planning

**Tech Stack:** PHP 7.4, Laravel, PostgreSQL, React.js, Microservices, K8s