

MAHMUD SIDDEKY

Software Engineer — PHP / Laravel / FinTech & Payment Systems

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PROFILE

Software Engineer with 5+ years of experience building backend and fintech systems using PHP, Laravel, MySQL, REST APIs, AWS, and Docker. Proven track record delivering payment integrations (bKash, Nagad, ShurjoPay, Pathao Pay, DBBL, MTBL), KYC onboarding, and amortization-based loan management systems for fintech and microfinance clients. Applies Repository and Service design patterns for maintainable, testable backend architecture, and works comfortably across the full software development lifecycle in Agile, cross-functional teams. Currently incorporating AI-assisted development tools (Claude Code, GitHub Copilot, OpenCode, OpenRoute) into daily workflows to speed up delivery without compromising code quality.

CORE COMPETENCIES

Backend Development (PHP, Laravel, Lumen) · REST API Design & Integration · MySQL Database Design/Optimization · Payment Gateway Integration · Loan & Financial Product Systems · AWS Cloud Deployment · Docker Containerization · CI/CD · Repository & Service Design Patterns · Agile Collaboration · Code Review & Refactoring · Client Communication & Requirements Gathering.

PROFESSIONAL EXPERIENCE

Software Engineer — Analyzen Bangladesh Ltd. Dec 2024 – Present | Dhaka, Bangladesh

- Design and develop RESTful APIs in Laravel for core fintech modules including KYC onboarding, loan products, savings products, and an amortization-based loan management system.
- Architect and optimize MySQL databases for large-scale financial data, ensuring performance, data integrity, and reliability.
- Deploy and maintain applications on AWS and containerize services with Docker for consistent environments across development, testing, and production.
- Collaborate with frontend teams to integrate React.js components and contribute to backend architecture and technical design decisions.
- Apply Repository and Service design patterns to build maintainable, testable systems, participate in code reviews, and mentor team members.
- Work within Agile, cross-functional teams; use AI-assisted development tools (Claude Code, OpenCode, OpenRouter) to speed up development, debugging, and documentation.

Software Engineer — Shurjomukhi Ltd. (ShurjoPay) 2022 – 2024 | Dhaka, Bangladesh

- Developed RESTful APIs using Laravel and Lumen for the ShurjoPay payment processing platform.
- Built the full merchant panel from scratch onboarding flows, API key management, transaction dashboards, and webhook configuration for thousands of merchant accounts.
- Implemented the settlement engine automating daily/periodic fund reconciliation and disbursement calculations between ShurjoPay and merchant accounts across multiple banks.
- Integrated payment services including bKash, Pathao Pay, MTBL, and DBBL.
- Designed and optimized MySQL databases for financial and payment applications, improving query performance and data integrity.
- Implemented backend architecture using Repository and Service design patterns, reducing technical debt.
- Collaborated with frontend teams using Vue.js, managed server environments, and Git-based deployment workflows.
- Led code reviews and refactoring initiatives; participated in client presentations and requirements gathering.

Junior Software Developer — Infolink Ltd. 2021 – 2022 | Dhaka, Bangladesh

- Developed and enhanced software features using Laravel, PHP, MySQL, and Bootstrap.
- Contributed to both frontend and backend development across the full software development lifecycle.
- Used Git for source control and assisted with server deployment and application maintenance.
- Implemented application features and improvements based on business requirements.

SELECTED PROJECTS

Amortization Loan Management System *(PHP, Laravel, MySQL, REST API)*

- Built repayment schedule and installment tracking functionality for amortization-based loan products, covering principal, interest, and financial transaction processing.

Payment Processing Platform *(PHP, Laravel, Lumen, MySQL, REST APIs)*

- Developed backend APIs integrating multiple payment providers, using Repository and Service patterns for maintainable architecture.

TECHNICAL SKILLS

Languages: PHP, JavaScript, SQL, Shell Script

Backend: Laravel, Lumen, REST APIs, API Integration

Frontend: React.js, Vue.js, Bootstrap

Database: MySQL, Oracle, Database Design & Optimization

Cloud & DevOps: AWS, Docker, Jenkins, CI/CD, Linux, Nginx, Apache

Architecture: Repository Pattern, Service Layer, REST Architecture, Code Review, Refactoring

FinTech & Payments: bKash, Nagad, ShurjoPay, Pathao Pay, DBBL, MTBL, Payment Gateway Integration, Loan Management Systems

AI-Assisted Development: Claude Code, GitHub Copilot, OpenCode, OpenRouter

Tools: Git, GitHub, Postman, MySQL Workbench, VS Code, PhpStorm, Jira, ClickUp

EDUCATION

BSc in Computer Science and Engineering — American International University-Bangladesh (AIUB)

2017 – 2021

LANGUAGES

Bengali: Native | English: Professional Working Proficiency