MD ASHIKUR RAHMAN

Software Developer | Fintech & AI Automation Specialist

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Summary

Experienced **Backend Developer** with 12+ years in **banking, fintech, and SaaS** industries, specialising in **scalable API and microservice architecture**. Skilled in **PHP, Java Spring Boot, Python, and AWS**, with a strong focus on **secure, high-performance systems**. Adept at using **AI-assisted tools** to enhance productivity, streamline development, and deliver robust cloud-based solutions in **agile environments**.

Experience

Agrani Bank PLC
Dhaka

Principal Officer (ICT) - Software Development & AI Integration
12/2024 - Present

Leading bank in Bangladesh

- Led the development of **Agrani Remittance Management System (RMS)** — a secure Java/PHP backend processing over **$10M in daily transactions**.
- Led the end-to-end development of the Agrani Remittance Management System (RMS) — a secure, scalable Java/PHP backend platform processing over $10M in daily remittance transactions.
- Architected microservice-based RESTful APIs, enhancing integration efficiency, scalability, and performance across multiple banking systems.
- Implemented role-based authentication and Spring Security, strengthening data protection and ensuring compliance with banking security standards.
- Automated financial data reporting pipelines and developed real-time analytics dashboards using MySQL and Power BI, improving reporting accuracy and decision-making speed.
- Collaborated with cross-functional teams to drive continuous integration, code reviews, and agile delivery, ensuring maintainable, high-quality code.
- Applied AI-assisted tools (GitHub Copilot, ChatGPT) for refactoring legacy modules, writing unit tests, and generating documentation
- Designed microservice-based REST APIs, improving integration and scalability
- Implemented role-based authentication (Spring Security) and conducted peer code reviews to ensure maintainability and performance
- Automated data reporting pipelines and delivered real-time analytics dashboards (MySQL, Power BI)

Agrani Bank Limited
Dhaka

Senior Officer (ICT)
04/2018 - 05/2025

Leading bank in Bangladesh

- Spearheaded modernization of internal applications using PHP (OOP), CodeIgnitor, and MySQL
- Spearheaded the modernization of internal enterprise applications using PHP (OOP), CodeIgniter, and MySQL, improving system efficiency and maintainability.
- Designed comprehensive object models, UML diagrams, and process flows for trade finance, audit, and remittance automation systems, aligning technology solutions with business needs.
- Implemented AI-assisted debugging and code analysis tools (GitHub Copilot, ChatGPT) to reduce defect rates, enhance code quality, and boost developer productivity.
- Optimized SQL queries and database structures, introducing data encryption, indexing, and performance tuning to strengthen security, speed, and data integrity.
- Collaborated with cross-functional IT and operations teams to streamline deployment workflows and ensure robust, scalable back-end services.

Upwork (Remote)

Freelance Software Developer
01/2015 - 01/1970

Freelancing platform

- Delivered full-stack web applications using Laravel, CodeIgniter, and WordPress, integrating secure payment gateways and APIs
- Applied AI tools for quick prototyping, test case generation, and client documentation
- Built and maintained postgraduate-funding.com - a UK-based CMS platform supporting thousands of users, integrating MySQL and REST APIs

Inspire Creative IT
Dhaka

Lead Developer
08/2012 - 02/2018

IT solutions company

- Led international development projects including postgraduate-funding.com, i-probono.com (legal aid CMS) and Banglalion4G.com (telecom platform)
- Architected and delivered PHP-based backend systems, optimized for performance and reliability
- Implemented CI/CD workflows and Git-based collaboration across multiple distributed teams

Education

NSTU   01/2011 - 05/2011

B Sc. Engineering, Computer Science & Telecommunication

Strengths

Software Development

Results-driven Backend Developer with 12+ years of experience building **secure, scalable applications** across **banking, fintech, and SaaS** sectors.
Expert in **backend development**, **RESTful APIs**, and **microservice architecture** using **PHP (Laravel, CodeIgniter)**, **Java (Spring Boot)**, and **Python**.
Skilled in **database design and optimisation** (MySQL, PostgreSQL, SQL Server) and **cloud deployment** on **AWS** for high-performance systems.
Proficient with **AI-assisted tools** such as **GitHub Copilot** and **ChatGPT**, enhancing **code quality**, **testing**, and **automation efficiency**.

DevOps and AI

Collaborated with **DevOps** teams to implement **CI/CD pipelines**, **Docker-based deployments**, and **AWS/Azure cloud architectures**.
Applied AI-assisted design validation and testing tools to optimise architecture decisions, enhance system performance, and accelerate solution delivery. Effective collaborator in **agile teams**, known for delivering clean, maintainable code and ensuring alignment with business and security standards.

Solution Architect

Architected enterprise-wide solutions, integrating legacy platforms with **microservice-based** and **cloud-native infrastructures** in **fintech and banking** environments. **Designed scalable architecture blueprints** and **API frameworks** using **Java Spring Boot**, **PHP (CodeIgniter)**, and **Python** to ensure **modularity, performance, and resilience**. **Defined technical roadmaps** and **governance models** aligned with **business goals**, **security standards**, and **GDPR compliance**. **Led cross-functional design reviews** and produced concise **architectural documentation** (sequence diagrams, object models, component maps) for implementation consistency. **Collaborated with stakeholders** to convert **business requirements** into **actionable technical solutions**, improving **scalability** and **maintainability**.

Key Achievements

Postgraduate Funding Platform

Contributed to a UK-based platform that supports thousands of postgraduate students with secure funding options. Effectively working site since 2012 till now, serving values to both students and the client.

Remittance Management System

Successfully led the development of a Java/PHP backend system for handling over $10M in daily transactions

Application Modernization Projects

Modernized key internal applications for a leading bank, significantly enhancing their functionality and security

Languages

English   Native   ●●●●●

Bengali   Native   ●●●●●

Skills

Gmail · PHP · OOP · Java Spring · GitHub · AWS · Azure · Laravel · CodeIgniter · Java · SpringBoot · JavaScript · ES6+ · Python · REST · Microservices · MongoDB · SQL · NoSQL · EC2 · AWS Lambda · RDS · S3 · Terraform · IAC · Bit Bucket · JIRA · Unit Testing · Agile · Git · Confluence · Postman · Docker · Microsoft Power BI · Encryption · WordPress · Payment Gateways · Gateway · Zend · Perforce

Training / Courses

Infosys Training — Java-based Application Development