

# Md Ashikur Rahman

Full-Stack Developer (WAMP/LAMP Stack) | Fintech API & AI-Driven Automation Engineer

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Open to Hybrid, On-Site ◇ [LinkedIn](#) ◇ [GitHub](#)

## SUMMARY

Senior backend engineer with 12+ years delivering scalable, secure APIs and microservices on cloud platforms. Led AWS teams running millions of requests/day, cut API latency by up to 40% and raised availability to 99.99%. Strong in Java Spring Boot, Python, containerization and CI/CD; drive automation, cost-efficiency and sustainable engineering practices. Fast learner who adopts new technologies to build secure, highly available systems and streamline operations.

## EXPERIENCE

### Principal Officer - Software Development and API Integration Specialist

Dec '24 — Present

Agrani Bank PLC.

Dhaka, Bangladesh

Directed development of Agrani Remittance Management System (RMS) — a secure Spring Boot backend processing \$10M+ daily remittances; led microservices, security, and analytics for 49 exchange partners.

- Architected microservice REST APIs in Spring Boot to scale remittance processing across 49 exchange houses, improving integration throughput and reducing service latency.
- Implemented Spring Security role-based access controls and authentication, strengthening compliance and reducing unauthorized access risk.
- Built Power BI and MySQL dashboards delivering real-time insights to executives, accelerating decision cycles and operational visibility.
- Automated data pipelines and reporting to increase reporting accuracy and shorten executive reporting lead time.
- Introduced CI/CD practices with cross-functional teams to standardize deployments, cut release time, and improve code quality through code reviews and automated tests.
- Applied AI-assisted tools (n8n, Copilot, ChatGPT) to refactor legacy modules and create unit tests, increasing developer throughput and reducing bug turnaround time.

### Senior Officer (ICT) - Software Development and Data analytics and Reporting

Apr '18 — May '25

Agrani Bank PLC.

Dhaka, Bangladesh

Led modernization of enterprise apps and database systems supporting 30–40K daily remittances and a beneficiary database of 125K+ entries, improving performance and maintainability.

- Optimized MySQL schema and queries with indexing and tuning to support 30–40K daily remittance transactions, reducing query latency and improving throughput.
- Integrated data encryption and security controls to protect a 50M+ record database, enhancing data integrity and regulatory compliance.
- Modernized PHP applications (OOP, CodeIgniter) and crafted object-oriented data models, increasing system maintainability for a 125K+ beneficiary dataset.
- Redesigned file-based remittance workflows to cut processing time by 50% through architecture improvements.
- Used AI-assisted tools to automate debugging and test generation, lowering defect rates and speeding developer delivery cycles.
- Coordinated with IT and operations to implement scalable backend deployments and high-availability services across 974 branches and ~10M customers.
- Produced management reports from analytics that informed strategic decisions and operational improvements.

### Freelance Software Developer

Jan '15 — Present

Agrani Bank PLC.

Dhaka (Remote)

Delivered full-stack web apps and CMS platforms for UK and international clients, including a high-traffic UK postgraduate funding site.

- Developed full-stack web applications (Laravel, CodeIgniter, WordPress) with secure payment and API integrations for international clients.
- Built and maintained a UK CMS ([postgraduate-funding.com](https://postgraduate-funding.com)) serving thousands of users using CodeIgniter and MySQL with REST APIs.
- Applied AI tools for rapid prototyping, test generation, and client documentation to speed delivery cycles.

### Lead Developer

Aug '12 — Feb '18

Inspire Creative IT (DEFINEXTEND LTD)

London, United Kingdom

Led international full-stack projects, improving availability and automating CI/CD pipelines for distributed teams.

- Architected and deployed PHP backends (CodeIgniter, Laravel, osCommerce) to ensure high availability and secure API integrations.
- Managed international development for high-traffic sites ([Postgraduate-Funding.com](https://Postgraduate-Funding.com), [i-Probono.com](https://i-Probono.com), [Banglalion4G.com](https://Banglalion4G.com)), improving performance and uptime.
- Established Git-based CI/CD pipelines to automate build, test, and deployment processes across distributed Scrum teams.

## EDUCATION

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**BSc in Computer Science & Telecommunication Engineering**, Noakhali Science and Technology University, Noakhali, Bangladesh (GPA: CGPA 3.71 / 4.00 (Third Position); merit-based scholarship recipient.) Jul '07 — Dec '11  
Noakhali, Bangladesh

- Dissertation: Influence of ICT and E-Readiness on Effective E-Governance in Public Administration.
- CGPA 3.71 / 4.00 (Third Position); merit-based scholarship recipient.
- Active member of NSTU-OSN (Open-Source Network) and IDEA, promoting IT literacy in rural schools.

## SKILLS

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**Languages & Frameworks** JavaScript (ES6+), Python, Java (Spring Boot), PHP (Laravel), Node.js / Express, IELTS  
**Databases** PostgreSQL, MySQL, MongoDB  
**Cloud & DevOps** AWS (EC2, S3, Lambda), Terraform, Docker, CI/CD (GitHub Actions / Bitbucket Pipelines), Git  
**Tools & APIs** RESTful APIs, Postman, Unit & Integration Testing, Jira / Confluence  
**Selected Specialties** Secure payment integrations, OOP & clean code, Data visualization (Power BI)  
**Languages** Bengali, English, Hindi

## PROJECTS

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**postgraduate-funding.com** [Link](#) Sep '23 — Present  
London, United Kingdom

- Built a custom CMS with CodeIgniter 4.1, JavaScript, and MySQL to streamline content workflows and scale site management.
- Integrated PayPal API to enable secure payments and automated transaction handling, improving checkout reliability and reducing manual reconciliation.
- Implemented advanced database search and user management features to boost performance and scalability for growing traffic.

**Intelligent Automation Framework with n8n, OpenAI, and Google APIs** [Link](#) Oct '25 — Present

- The n8n workflows demonstrate real-world AI orchestration, automation scalability, and no-code system integration, showcasing how conversational AI can interact seamlessly with external data systems.

Key features include:

- RAG (Retrieval-Augmented Generation) setup using vector embedding for document Q&A
- AI-based email sentiment analysis and automated task categorization
- Google Sheets data logging for dynamic tracking and reporting
- Custom API triggers to automate content retrieval, summarization, and knowledge queries

**Agrani RMS (Remittance Management System)**, Agrani Bank PLC [Link](#) Jan '22 — 2025  
Dhaka, Bangladesh

- Co-developed a Java Spring Boot remittance platform processing ~\$10M USD/day, reducing file-to-post latency and ensuring timely funds crediting.
- Engineered secure authentication and authorization with Spring Security, improving transaction integrity and regulatory compliance.
- Optimized backend throughput using JPA and MySQL indexing strategies, improving processing speed and reliability for high-volume daily remittances.

**freemarkalexander.org** [Link](#) Jan '19 — Jul '19

- Developed a WordPress CMS with third-party API integrations (Google Maps, PayPal) to enable geo-location features and secure payments.
- Implemented performance and security best practices to maintain high engagement and protect user payment data.

## CERTIFICATIONS

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**Zend Certified PHP Engineer**, Zend by Perforce Oct '25

**Diplomaed Associate of The Institute of Bankers, Bangladesh (DAIBB)**, The Institute of Bankers, Bangladesh May '20

**Junior Associate of The Institute of Bankers, Bangladesh (JAIBB)**, The Institute of Bankers, Bangladesh Sep '19

**Infosys Training (Java-based Application Development in POJO)**, Infosys Limited, Mysore Campus, India Mar '15

## VOLUNTEERING

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**Founder**, IDEA (Information development and Exchange Association)

Launched and led tech-awareness programs for rural schools; delivered interactive computer sessions and live demos to ~500 students, increasing basic computer literacy and sparking sustained interest through quizzes and rewards. Designed simple teaching materials and coordinated volunteers, improving program reach and repeatability.

**Associate Member**, Noakhali Science and Technology University Open Source Network

Organized seminars and workshops on open-source stacks (Ubuntu, Red Hat, Joomla, WordPress), training 200+ students and faculty in development and deployment best practices; promoted open-source tools for prototyping and small-scale web deployments, increasing local adoption and contributor participation.