

# Md Ashikur Rahman

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

+447353215427 ◇ [im.md.ashikur.rahman@gmail.com](mailto:im.md.ashikur.rahman@gmail.com) ◇ 48 Dockland Street, London, E162JE, United Kingdom ◇

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

<b>Principal Officer - Software Development and API Integration Specialist</b> Agrani Bank PLC.	Dec '24 — Present 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.	
<ul style="list-style-type: none"><li>Architected microservice REST APIs in Spring Boot to scale remittance processing across 49 exchange houses, improving integration throughput and reducing service latency.</li><li>Implemented Spring Security role-based access controls and authentication, strengthening compliance and reducing unauthorized access risk.</li><li>Built Power BI and MySQL dashboards delivering real-time insights to executives, accelerating decision cycles and operational visibility.</li><li>Automated data pipelines and reporting to increase reporting accuracy and shorten executive reporting lead time.</li><li>Introduced CI/CD practices with cross-functional teams to standardize deployments, cut release time, and improve code quality through code reviews and automated tests.</li><li>Applied AI-assisted tools (n8n, Copilot, ChatGPT) to refactor legacy modules and create unit tests, increasing developer throughput and reducing bug turnaround time.</li></ul>	
<b>Senior Officer (ICT) - Software Development and Data analytics and Reporting</b> Agrani Bank PLC.	Apr '18 — May '25 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.	
<ul style="list-style-type: none"><li>Optimized MySQL schema and queries with indexing and tuning to support 30–40K daily remittance transactions, reducing query latency and improving throughput.</li><li>Integrated data encryption and security controls to protect a 50M+ record database, enhancing data integrity and regulatory compliance.</li><li>Modernized PHP applications (OOP, CodeIgniter) and crafted object-oriented data models, increasing system maintainability for a 125K+ beneficiary dataset.</li><li>Redesigned file-based remittance workflows to cut processing time by 50% through architecture improvements.</li><li>Used AI-assisted tools to automate debugging and test generation, lowering defect rates and speeding developer delivery cycles.</li><li>Coordinated with IT and operations to implement scalable backend deployments and high-availability services across 974 branches and ~10M customers.</li><li>Produced management reports from analytics that informed strategic decisions and operational improvements.</li></ul>	
<b>Freelance Software Developer</b> Agrani Bank PLC.	Jan '15 — Present Dhaka (Remote)
Delivered full-stack web apps and CMS platforms for UK and international clients, including a high-traffic UK postgraduate funding site.	
<ul style="list-style-type: none"><li>Developed full-stack web applications (Laravel, CodeIgniter, WordPress) with secure payment and API integrations for international clients.</li><li>Built and maintained a UK CMS (postgraduate-funding.com) serving thousands of users using CodeIgniter and MySQL with REST APIs.</li><li>Applied AI tools for rapid prototyping, test generation, and client documentation to speed delivery cycles.</li></ul>	
<b>Lead Developer</b> Inspire Creative IT (DEFINEXTEND LTD)	Aug '12 — Feb '18 London, United Kingdom
Led international full-stack projects, improving availability and automating CI/CD pipelines for distributed teams.	
<ul style="list-style-type: none"><li>Architected and deployed PHP backends (CodeIgniter, Laravel, osCommerce) to ensure high availability and secure API integrations.</li><li>Managed international development for high-traffic sites (Postgraduate-Funding.com, i-Probono.com, Banglalion4G.com), improving performance and uptime.</li><li>Established Git-based CI/CD pipelines to automate build, test, and deployment processes across distributed Scrum teams.</li></ul>	

## 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.