Muhammad Shamsul Maruf

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Professional Summary

Highly experienced Senior Software Engineer with over 15 years driving the design, development, testing, and deployment of complex, scalable software and systems. Proven expertise in backend development, cloud-native architecture, automation, and enhancing system reliability. Adept in Java, Python, Go, Spring Boot, and key AWS cloud services including Lambda, S3, RDS, EC2, DynamoDB, API Gateway, and CloudWatch. Specialized in building secure, mission-critical applications for government, banking, and healthcare sectors, including large-scale Biometric ID, e-money, and federal-compliant SaaS solutions. Skilled in containerization (Docker), CI/CD (Jenkins, TeamCity), and DevOps practices. Strong problem-solver, collaborator, and autonomous engineer passionate about Impact at Scale and Innovation & Automation in fast-paced, agile environments.

Work Experience

EPAM Systems Sp. z o.o, Gdańsk, Poland

Senior Software Engineer | March 2023 – March 2025

- Designed and developed scalable backend APIs using Java 17, Spring Boot, and AWS services (Lambda, DynamoDB, OpenSearch, RDS, API Gateway) for Cigna Healthcare, significantly enhancing data processing capabilities for a large-scale platform.

- Implemented serverless AWS Lambda functions in Python for automating critical data tasks and background processing, contributing to operational efficiency and cost optimization.

- Built comprehensive monitoring dashboards with Splunk and AWS CloudWatch to enable real-time system health tracking and proactive issue resolution, reducing mean time to detection.

- Refactored legacy backend systems into scalable RESTful APIs and established automated CI/CD pipelines (Jenkins, GitHub), accelerating development cycles and improving system reliability for Vanguard Property Management.

TigerIT Bangladesh Ltd, Dhaka, Bangladesh

Senior Software Engineer | June 2021 – February 2023

- Led R&D and development of secure, government-critical systems including National ID (NID) and passport platforms for [insert population scale/impact, e.g., supporting a large population] using Java, Spring Boot, Python, Groovy, and Go, ensuring high reliability and data security.

- Contributed to the development of vehicle tracking and secure communication projects using Java, Kafka, Oracle, PostgreSQL, Redis, focusing on system resilience and performance.

Kona Software Lab Ltd, Dhaka, Bangladesh
Senior Software Engineer L-2 | August 2019 – June 2021

- Developed and maintained critical banking and e-money systems including VISA spec card integration, supporting platforms like NAGAD and NEXUS Pay.

- Designed and implemented scalable backend solutions using Java, Spring Boot, Kafka, Oracle, and Redis to handle high transaction volumes, ensuring system reliability.

- Contributed to the development of international lottery software, demonstrating ability to deliver solutions for diverse domains and requirements.

IdeaScale Ltd, Dhaka, Bangladesh
Senior Software Engineer | December 2015 – August 2019

- Led development efforts for mission-critical idea management platforms adopted by high-profile government and defense organizations (DARPA, NASA, US Navy).

- Designed and implemented scalable backend services using Java, Spring, MySQL, and Elasticsearch to support diverse user bases and data volumes.

- Automated deployment pipelines using TeamCity CI/CD and Docker and managed API gateway infrastructure (nginx), enhancing development efficiency and system resilience.

Therap Services, LLC (Therap BD Ltd), Dhaka, Bangladesh
Senior Software Engineer | January 2008 – December 2015

- Developed and maintained web applications for disability support services and clinical data management, ensuring strict HIPAA compliance.

- Built backend systems using Java, Spring MVC, J2EE, Oracle DB, MySQL, and AWS RDS to manage sensitive data at scale.

IICT, BUET, Dhaka, Bangladesh
Programmer | August 2006 – July 2007

- Developed applications using Java, C#, and Visual Basic for clients including BUET, DESCO, and Bakhrabaad Gas.

- Gained experience with multiple database systems including Oracle DB, MySQL, and MS-SQL.

Skills

- **Programming Languages:** Java, Python, Go, Groovy, JavaScript, TypeScript, SQL, C#

- **Frameworks:** Spring, Spring Boot, Hibernate, NodeJS, Flask

- **Cloud & DevOps:** AWS (S3, Lambda, RDS, EC2, DynamoDB, API Gateway, CloudWatch, IAM), Docker, Jenkins, TeamCity, Terraform, CI/CD, Automation, Infrastructure as Code (AWS CDK)

- **Databases:** MySQL, Oracle DB, PostgreSQL, Elasticsearch, DynamoDB, RDS, NoSQL

- **Monitoring/Logging:** Splunk, Kibana, Prometheus, Grafana, CloudWatch

- **Other Tools:** Maven, Gradle, Webpack, Babel, JUnit, Cucumber, JMeter, Sunfire

- **Concepts:** System Design, Architecture (Design Patterns), Reliability Engineering, Scaling, Problem Solving, Debugging, Operational Excellence, Secure Systems, Microservices, Agile Methodologies

Education

Bachelor of Science in Engineering | June 2000 – January 2005 | 3.21/4
Computer Science & Engineering, Rajshahi University of Engineering & Technology (RUET), Bangladesh

Languages

- **English:** Upper-Intermediate or B2 (Everyday and Professional Use)