Joy Roy

joy.roy.nil76@gmail.com
LinkedIn | GitHub | Portfolio
Dhaka, Bangladesh, +8801776337150

Summary

I have worked as a Software Engineer for over three years, specializing in backend development, cloud computing, and integrating CI/CD pipelines. I specialize in microservice architecture, with extensive experience in Java, Python, and platforms such as Spring Boot, and Django. I have been the main developer of the Artifacts Delivery System (ADS) at Samsung R&D Institute, which is a content delivery network supporting 25 Global R&D Centers (GRC) and achieving a 40% faster download speed and an 80% higher deployment success rate through the use of Docker, Kubernetes, and AWS services such as S3 and CloudFront. I am passionate about solving complex problems, optimizing system performance, and maintaining high-quality code, and I thrive in dynamic, fast-paced environments.

Professional Experience

Senior Software Engineer, Samsung R&D Institute, *Dhaka, Bangladesh* Feb 2022 - Present

- Served as a secondary admin and product owner for the Samsung Artifacts Delivery System (ADS), optimizing artifact delivery speed and security through proprietary network accelerators and smart caching; enhanced efficiency for over 100,000 Samsung employees and partners.
- Developed advanced features for a Content Delivery Network (CDN) using Django, Spring Boot, and AWS technologies (CloudFront, S3), resulting in a 40% improvement in binary download speed and a 25% reduction in latency, significantly improving the overall user experience.
- Wrote and maintained a comprehensive suite of automated scenario tests using Bash, reducing regression issues by 50% and ensuring the quality of the codebase.
- Orchestrated efficient deployment management of components using Bash, Fabric, Docker, and Kubernetes, achieving an 80% increase in deployment success rate and a 30% reduction in post-deployment issues.
- Works on administrative operational tasks, including monitoring using Splunk, to ensure the smooth operation of the ADS service, reducing critical incident response time by 25%.

Intern Software Engineer, Samsung R&D Institute, *Dhaka, Bangladesh* Jul 2021 - Jan 2022

- Configured and optimized cross-platform CI build pipelines for PBS and RBS using Jenkins and QuickBuild, resulting in a 30% reduction in build times and a 25% improvement in deployment efficiency.
- Improved CI/CD automation infrastructure for native applications, enhanced the development processes across diverse teams, and reduced deployment time by 50%.
- Restructured and implemented a rule-based static analysis tool using Java, resulting in a 40% reduction in code errors.

Education

Daffodil International University
Bachelor of Engineering, Software Engineering (GPA: 3.65/4.00) August 2020
Dhaka, Bangladesh

Publications

Google Scholar

- Roy, J., (2020, February). Machine Learning Techniques for Predicting Surface EMG Activities on Upper Limb Muscle: A Systematic Review. In International Conference on Cyber Security and Computer Science (pp. 330-339). Springer, Cham.
- Roy, J., (2020, December). Breast Cancer Risk Prediction based on Six Machine Learning Algorithms. In 2020 IEEE Asia-Pacific Conference on Computer Science and Data Engineering (CSDE) (pp. 1-5). IEEE.
- Roy, J., (2019). A Comparative Study On Liver Disease Prediction Using Supervised Machine Learning Algorithms. International Journal of Scientific & Technology Research,8(11),419-422.
- Roy, J. Usability Testing of Tourism Apps In Bangladesh. International Journal of Scientific and Technology Research, 2020

Skill

Languages & Tools: Java, Python, C/C++, JavaScript, Bash, Spring Boot, Django, JEE, RPC, REST API, FastAPI, Microservice, Distributed Systems, Cross-Functional, SQL (MySQL, PostgreSQL), Amazon Web Service (AWS), Azure, Containerized deployment (Docker, Kubernetes), Design Patterns, Clean Code, Code Review, DevOps Tools (QuickBuild, Jenkins, GitHub Actions), Git, GitHub, Gerrit, Perforce, Swarm, Oracle, NoSQL(MongoDB, Redis), Splunk, Agile, TensorFlow, Anaconda, Jira, OpenProject.
Soft skills: Innovation, Creativity, Practical, Curiosity, Collaborative Work, Flexible, Scalability, Growth Mindset.