Joy Roy

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Summary

I am a Software Engineer with more than two years of experience in backend development, cloud computing, and CI/CD pipeline integration. A strong experience with languages such as Python, and Java and frameworks including Django and Spring Boot, I have developed and mentored projects that improved performance and minimized operations constraints such as microservice architecture. During my time at Samsung R&D Institute, I was responsible for improving the general performance of some CDN services across the countries reaching 40% on the download speed as well as having 80% on the successful deployment bay implementing Docker, Kubernetes, and AWS. I love working on interesting problems and increasing the quality of code at the project constantly I am ready to continue working on interesting and productive work at companies with a high pace of development.

Professional Experience

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

Served as secondary admin and product owner for global ADS service, optimizing artifact delivery speed and security using proprietary network accelerators and smart caching; boosted efficiency for 100,000+ Samsung employees and partners.
- Work on advanced features for a Content Delivery Network (CDN) using Django, Spring, and AWS technologies (Cloud Front, S3), resulting in a 40% improvement in binary download and a 25% reduction in latency, enhancing overall user experience
- Write and maintain a comprehensive suite of automated scenario tests using Bash, leading to a 50% decrease in regression issues and ensuring codebase quality
- Orchestrate the efficient deployment management of components using Bash, Fabric, Docker, and Kubernetes, leading to an 80% increase in deployment success rate and a 30% reduction in post-deployment issues.
- Works on administered operational tasks, such as monitoring, to ensure the efficient operation of the service, resulting in a 25% reduction in response time for critical incidents.

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++, Bash, Django, Spring Boot, 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, Kanban, Jira, OpenProject.
Soft skills: Innovation, Creativity, Practical, Curiosity, Collaborative Work, Flexible, Scalability, Growth Mindset.