

Joy Roy

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Summary

I am a Software Engineer with over three years of experience in back-end development, cloud computing, and CI/CD integration. Proficient in Python and Java, and skilled in frameworks like Django and Spring Boot, I have led projects that enhanced performance and streamlined operations through microservice architecture. At Samsung R&D Institute Bangladesh, I improved multiple CDN services in 12+ global centers, achieving a 40% increase in download speed and a 80% deployment success rate using Docker, Kubernetes, and AWS. I am eager to contribute to fast-paced, dynamic teams focused on development and innovation.

Experience

Software Engineer

Dhaka, Bangladesh

Samsung

Feb 2022 – Present

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

Software Engineer Intern

Dhaka, Bangladesh

Samsung

Jul 2021 – Jan 2022

- Configured and optimized cross-platform CI build pipelines for PBS (Proof build support) and RBS (Release build support) 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, improved 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.

Technologies

Programming Languages: Python, Java, C/C++, Golang, Bash

Frameworks & Libraries: Django, Spring Boot, J2EE, Flask, REST APIs, RPC APIs.

Database Systems: MySQL, PostgreSQL, SQLite.

Containerization: Docker, Kubernetes.

DevOps Tools: QuickBuild, Jenkins, GitHub Actions

Version Control Tools: Git, GitHub, Perforce

Monitoring: Splunk.

Soft skills: Innovation, Creativity, Practical, Curiosity, Collaborative Work, Flexible, Scalability.

Publications

[Joy Roy - Google Scholar](#) 

- **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. (2020, February).
- **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. (2020, December).
- **A Comparative Study On Liver Disease Prediction Using Supervised Machine Learning Algorithms.** International Journal of Scientific & Technology Research,8(11),419-422. (2019, November)
- **Usability Testing of Tourism Apps In Bangladesh.** International Journal of Scientific and Technology Research, VOLUME 9, ISSUE 04, ISSN 2277-8616. (2020, April)

Education

Daffodil International University

May 2016 – Aug 2020

BS in Software Engineering

- GPA: 3.63/4.0

Projects

E-Commerce Site

[Online-Shopping-Site](#) 

- Enables users to browse, add to cart, and purchase products seamlessly.
- Spring MVC, jQuery, Angular.js, Hibernate, maven, Ajax, H2

Metro-Rail E-ticket

[Metro-Rail-Project](#) 

- Allows users to purchase metro rail tickets and view detailed routes.
- Tools Used: J2EE, Servlet, JSP , MySQL

Student Portal

2017

- Facilitates course registration and semester result tracking for students.
- Tools Used: C++

Open-Source

- <https://chromium-review.googlesource.com/q/owner:joy.roy.nil76@gmail.com>