
SONALI RANGAMPALLY

Aspiring DevOps Engineer

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WWW: <https://rangampallysonali.github.io/PORTFOLIO/>

SUMMARY

Currently pursuing a Master's degree in Computer Science, with strong foundational knowledge in software development, cloud computing, and automation. Passionate about DevOps practices, continuous integration/continuous deployment (CI/CD), and infrastructure as code (IaC). Skilled in tools like Docker, Jenkins, Git, and AWS. Seeking a DevOps internship to apply technical skills, contribute to efficient software delivery, and gain hands-on industry experience.

SKILLS

- **Cloud:** AWS (EC2, S3, Lambda, SageMaker, Recognition), Azure
- **Languages:** Python, Bash, C, C++
- **Containers & Infra:** Docker, Linux, AWS IAM, Networking
- **Version Control:** Git, GitHub
- **DevOps Tools:** Git, Jenkins, Docker, GitHub Actions
- **CI/CD & Automation:** GitHub, Jenkins pipelines, shell scripting
- **Monitoring & Logs:** CloudWatch basics
- **Other Tools:** Packet Tracer, VS Code, Jupyter, CLI tools

RELEVANT EXPERIENCE

DevOps Intern (Capstone Project)

Remote / Jun 2023 - Sept 2023

Designed and implemented a complete CI/CD pipeline for a Python-based web application using Jenkins, Git, and Docker.

- Wrote a Jenkins file to automate build, test, and deploy stages using Docker containers.
- Created custom Docker images and managed them via Docker Hub.
- Configured GitHub webhooks to trigger Jenkins jobs automatically on push events.
- Implemented SonarQube integration for code quality analysis in the pipeline.
- Monitored application logs and container health using basic Bash scripts and Linux jobs.
- Deployed the containerized application on a local virtual machine simulating a production environment.
- Documented all steps in GitHub and followed Git best practices using feature branches and pull requests.

AWS Cloud Foundation Intern, 10/2021 - 12/2021

Amazon Web Services – India

- Gained hands-on experience deploying and managing core AWS services, including EC2, S3, IAM, and Lambda
- Built foundational cloud architectures using best practices in security and scalability
- Practiced setting up virtual servers, permissions, and storage for simulated enterprise environments
- Developed and tested basic automation scripts using AWS CLI and Python
- Applied concepts of cloud networking, monitoring, and infrastructure as code
- Collaborated on lab-based projects simulating real-world cloud deployment scenarios

AWS Machine Learning Intern, 01/2021 - 04/2021

Amazon Web Services – India

- Assisted in developing, training, and optimizing machine learning models using AWS services like SageMaker, Recognition, and Lambda.
- Collaborated with the data science team to preprocess large datasets and implement data pipelines on AWS.
- Conducted experiments to improve model accuracy, scalability, and performance in cloud environments.
- Automated workflows using AWS tools to streamline deployment and monitoring of ML models.

Reach Tutor, 08/2024 - Current

Toro Auxiliary Partners – California, United States

- Provided one-on-one and small group academic support to K–12 students across various subjects, helping improve understanding and performance.
- Assisted students in developing effective study habits, organizational skills, and time management.
- Maintained clear communication with teachers and staff to align tutoring goals with curriculum requirements.

CERTIFICATIONS

- Azure AI fundamentals
- AWS ML Internship
- Networking Essentials
- Cloud Foundation Internship
- Packet Tracer
- Cybersecurity Essentials

EDUCATION AND TRAINING

Master of Science: Computer Science, 01/2026

California State University Dominguez Hills - Carson, CA

- Advanced Software Engineering, Data Structures, Operating Systems, Object-Oriented Programming, Design and Analysis of Algorithms, Software Quality Assurance
- Built a strong foundation in software development life cycle, version control, and testing methodologies
- Gained practical experience in system-level programming, performance analysis, and automation
- Applied Agile and DevOps principles in academic projects involving CI/CD pipelines and code quality tools

CI/CD Pipeline for Python Project (GitHub)

- Set up Jenkins pipeline for a Python-based app with unit tests, Docker packaging, and deployment

IoT-Based Collision Detection System

- Published in *IJARSSST*, Vol. 13, June 2023 (ISSN: 2457-0362)

Nidar – Women Safety App

- College-level innovation contest finalist; top 3 project.
- Features: real-time tracking, geolocation alerts, emergency signals.

Sentiment Analysis ML App

- Implemented NLP with cloud-based model deployment