Jayraj Mulani

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SUMMARY

Software Engineer with 3+ years of experience in Full Stack Development, Cloud Computing and DevOps.

WORK EXPERIENCE

North Carolina State University | Graduate Research Assistant | Software Engineer

Sep 2022 - May 2024

- Led the development, deployment, and enhancement of RABapp, a biosecurity and contact tracing application utilized by 17 US State Health Officials. Tech Stack: Angular, Java Spring Boot, PostgreSQL, Keycloak, AWS and Docker.
- Developed pandas and openpyxl based **Python** scripts to automate file and data processing, reducing manual efforts by 50%.
- Leveraged Scrum methodology to deliver robust production-ready code & reduced 40% bugs through rigorous code reviews.
- Improved RABapp API performance 5x by implementing CompletableFuture-based asynchronous multithreaded REST APIs.
- Managed recruitment by redesigning coding challenges, screening applicants, conducting interviews and onboarding new hires.

Oracle | Software Developer 2 | Applications Engineer

Sep 2020 - Jun 2022

- Collaborated in design, development and deployment of **Terraform** based service to automate provisioning and decommissioning of Oracle Cloud resource stacks across compartment hierarchies.
- Automated critical patch update process to save over 100 man-hours per quarter utilizing Jira APIs and OCI Python SDK.
- Demonstrated leadership and collaboration skills by leading 4 projects, mentoring a team of 3 and conducting interviews.
- Diagnosed and fixed over 78 bugs in Oracle Fusion App Suite, built Oracle Application Development Framework (ADF).
- Ensured backwards compatibility by patching and back-porting over 20 bug fixes and enhancements, improving product stability.

Oracle | Project Intern

Jan 2020 - Jun 2020

- Developed a **Python** tool for synchronizing large server archive files (up to **50 GB**) with OCI Object Storage, ensuring disaster recovery and automating backup processes.
- Dockerized and deployed applications on Oracle Cloud Infrastructure (OCI) leveraging Compute and Autonomous Database.
- Implemented asynchronous solution to manage & track cloud resource allocation processes using Jira APIs, Django & React.js
- Applied Critical Patch Updates on 7 clustered Linux environments to ensure enhanced security with minimum downtime.

Tata Consultancy Services | Summer Intern

May 2019 - Jul 2

- Reduced manual testing time by 30% developing semi-automated API testing tool API Scoreboard using Angular, Spring-boot.
- Deployed API Scoreboard on Amazon Web Services by leveraging services like Elastic Beanstalk, RDS, S3 and EC2.

SKILLS

Languages: Java, Python, TypeScript, JavaScript, SQL, C/C++, HTML/CSS, Shell

Frameworks & DBs: Django, Flask, React, Spring-Boot, Nodejs, Angular, Redux, MySQL, MongoDB, PostgreSQL, REST Tools & Technologies: Linux, Terraform, Docker, Kubernetes, Ansible, Jenkins, OAuth2.0, Github, Jira, Keycloak, Agile, GCP Certifications: Oracle Cloud Infrastructure - Architect Associate &, Amazon Web Services - Cloud Practitioner &

EDUCATION

North Carolina State University | Master of Computer Science

Aug 2022 - May 2024

Computer and Network Security, Software Engineering, Software Security, DevOps, Cloud Computing

GPA: 4.0/4.0

Nirma University | Bachelor of Technology in Computer Engineering

Computer Networks, Database Management Systems, Data Mining, Operating Systems, Algorithms

Jul 2016 - Jun 2020 GPA: 9.14/10.0

PROJECTS

From Chaos to Control: Terraforming a New DevOps Era @ | DevOps | Academic Project

Aug 2023 - Dec 2023

- Orchestrated a DevOps pipeline utilizing Ansible, Docker, GitHub Actions, and Terraform for automated resource provisioning.
- Streamlined deployment of a NodeJS app on Google Cloud Platform (GCP), ensuring a robust and scalable infrastructure.

JobTrackr *❷* | *Software Engineering* | *Academic Project*

Sep 2022 - Dec 2022

- Automated end-to-end deployment on AWS EC2 by engineering a CI/CD pipeline using Github Actions, Ansible and Jenkins.
- Accelerated release cycles, enhanced scalability, and fostered team collaboration by implementing Agile development practices.

ERP System | Raahee Multipack Pvt. Ltd. | Freelance Project

Aug 2021 - Mar 2022

- Designed and implemented a fully functional ERP app in React is and Python Flask for a packaging manufacturing company.
- Deployed the app on OCI and improved operational efficiency by 40%, supporting 120 employees with essential operations.

Inaudible ⊘ | Deep Learning | Academic Project

Jun 2019 - Dec 2019

- Empowered deaf individuals to comprehend English audio by delivering a PoC to translate English to ASL video in real-time.
- Performed comprehensive preprocessing on over 30GB of American Sign Language (ASL) video and CSV datasets.
- Leveraged Natural Language Processing (NLP) and Neural Machine Translation (NMT) techniques to achieve 67% accuracy.