

Jayraj Mulani

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SUMMARY

Software Engineer with 4+ years of experience in Full Stack Software Development, Cloud Computing and DevOps.

WORK EXPERIENCE

Amazon.com, Inc. | *Software Development Engineer II* **Apr 2025 - Present**

- Collaborated on introducing **Dark Mode** support for Kindle's color e-ink devices, improving accessibility and UX across Library and Annotation Notebook (AN) for millions of users.
- Improved CI/CD pipeline stability by **~40%**, adding non-functional tests and reducing functional test run time by **~70 minutes**.
- Migrated a legacy YNH (Your Notes and Highlights) service to native AWS, enhancing deployment reliability and reducing latency by eliminating runtime service calls for localized strings.
- Improved cold-open performance **3x** by asynchronously processing page thumbnails, significantly reducing load time for AN.

Goldman Sachs | *Software Engineer, Associate* **Nov 2024 - Apr 2025**

- Engineered **ETL** pipelines to automate regulatory reporting calculations to ensure compliance, improving efficiency by **40%**.
- Enhanced performance by reducing job runtime from **7 hours** to **~2 hours** by optimizing bottlenecks, while preserving accuracy.
- Documented **10,000+** lines of legacy risk analysis code for identifying gaps, enabling optimization and ensuring accuracy.

North Carolina State University | *Full Stack Developer* **Sep 2022 - Nov 2024**

- Led the full stack development of RABapp in **Java Spring Boot, Angular, PostgreSQL, Keycloak, Docker, Localstack**.
- Upgraded **Angular, Spring Boot** to address vulnerabilities, significantly reducing the codebase size and clearing technical debt.
- Maintained cloud infrastructure on **AWS** (ECS, RDS, Lambda, S3, SES) using **Terraform** IaC and engineered Github Actions based **CI/CD** pipeline, improving deployment speed and system reliability.
- Created **AWS Lambda** functions for image processing and email notifications, and implemented structured logging in **SLF4J**.
- Enhanced API performance by **5 times** using **multithreading** and **CompletableFuture**-based **asynchronous** REST APIs.
- Conducted **usability tests** with state and company officials to improve **UX**, expanded reach to **27 US states** (87% growth).

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. Tech Stack: **React.js**, Python **Django**.
- Automated critical patch update process to save over **100** man-hours per quarter utilizing Jira APIs and OCI Python SDK.
- Engaged with global teams to develop and enhance Oracle Learning Cloud, resolving **70+** critical bugs and issues for **45+** clients.
- Utilized Oracle **SQL and PL/SQL** to execute 15 data fixes on large scale databases with over **10M rows**, ensuring data integrity.
- Ensured backwards compatibility by patching and back-porting over **20** bug fixes and enhancements, improving product stability.

SKILLS

Languages: Java, Python, TypeScript, C++, JavaScript, SQL, C, HTML/CSS, Shell, Slang
Frameworks & DBs: Django, Flask, React, Spring-Boot, Nodejs, Angular, Redux, MySQL, MongoDB, PostgreSQL, REST, SecDB
Tools & Technologies: Linux, AWS, Terraform, Docker, Kubernetes, Ansible, Jenkins, OAuth2.0, Git, Grafana, GCP, Prometheus
Key Competencies: Distributed Systems, Cloud Architecture, SDLC, Agile, DevOps, Microservices, System Design
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* **Jul 2016 - Jun 2020**
Computer Networks, Database Management Systems, Data Mining, Operating Systems, Algorithms *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.
- Implemented continuous system metrics monitoring with **Prometheus** and developed comprehensive dashboards using **Grafana**.

Drone Fleet Management Solution | *Cloud Architecture Design | Academic Project* **Jan 2023 - May 2023**

- Designed a secure, scalable cloud infrastructure for drone fleet management app on **AWS**, utilizing **DynamoDB, ELB, ECR**, and **EKS** to ensure high availability and reliability within a distributed environment.
- Conducted **Kubernetes** experiments on load balancing and auto-scaling across two AZs, optimizing resource allocation and improving system scalability by **35%**.