

# ROJINA DEUJA

rdeuja33@gmail.com | [rojinadeuja.github.io](https://rojinadeuja.github.io) | [github.com/rojinadeuja](https://github.com/rojinadeuja) | [linkedin.com/in/rojinadeuja](https://linkedin.com/in/rojinadeuja)

## SUMMARY

Cloud & Platform Engineer with 4+ years of experience automating infrastructure, scaling distributed, containerized systems and building developer platforms. Proven track record designing secure AWS/Kubernetes solutions, accelerating CI/CD workflows and integrating AI-driven automation to enhance reliability. Skilled in cloud-native architecture, observability, and incident response - consistently delivering enterprise-grade platforms with 99.999% uptime.

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## SKILLS

Programming: **Golang, Python, JavaScript/TypeScript, Java, Groovy**

Cloud & Infra: **AWS (EC2, EKS, S3, CloudWatch, Lambda, RDS), Docker, Kubernetes, Helm**

CI/CD & DevOps: **Spinnaker, Jenkins, Git, Postman**

Databases: **MySQL, PostgreSQL, Oracle 12c/11g, MongoDB, Neo4j**

Other: **Agile, Observability, Incident Response, System Administration (Unix/Linux)**

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## WORK EXPERIENCE

### MTS Software Engineer

Jan 2022-Present

#### Salesforce

San Francisco, CA

- Designed and scaled a centralized **Infrastructure Management platform** enabling secure Salesforce on-prem to **AWS** connectivity across **1,000s of hosts and 20+ data centers**; eliminated manual host logins and streamlined complex deployments.
- Established organization's first certified **"Safe Change" paved path**, delivering to our customers automated deployment pipelines with **100% testing and rollback validation** to meet enterprise compliance requirements
- Orchestrated **Vulnerability Management Lifecycle** for 3PP (Third-Party Providers) and fleet-wide hosts; **Led cross-functional weekly reviews** with TVM and Patching teams to ensure remediation of 50+ OS and third-party vulnerabilities within strict SLAs.
- Led development of **Spinnaker pipeline service** that automates artifact monitoring and auto-triggers deployment **within 2 minutes of a build**, cutting deployment latency and **manual effort by 80%**.
- Led integration of an **AI-powered Support Bot** for automated self-service, PagerDuty escalation, and ticket generation, backed by real-time metrics dashboards.
- Drove high-stakes **infrastructure migrations**, including the transition of core services from Firefly to **SFCI** and the fleet-wide upgrade to **RHEL 9.7 for 68 hosts**; successfully migrated multiple microservices per host while ensuring zero downtime and service continuity.
- Designed and built **operational CLI tooling** to interface with Spinnaker pipelines, streamlining script-based deployment initiation and empowering customers with **full programmatic workflow control**.
- Integrated comprehensive **workflow orchestration** to eliminate manual overhead across **AWS infrastructure management, database operations and container lifecycle management**.
- Led high-urgency incident response and root cause analysis, consistently exceeding **99.999% SLA** in resolving production issues, customer-impacting bugs and critical maintenance events.

### Software Engineer Intern

May 2021-Aug 2021

#### Cloudera

Santa Clara, CA

- Designed and built **Jenkins Job Monitoring** tool that scans & rebuilds failed jobs, reducing **4-5 hours of workload to 1-2 minutes**.
- Built **GitHub Access Management** tool. Developed APIs in Python to **automate verification for 3000+ users**.
- Diagnosed issues for CI/CD failures; Delivered resolutions for **6 different pain points** as part of **Release Engineering support**.

### Graduate Research and Teaching Assistant

Aug 2019- Dec 2021

#### University of Nebraska-Lincoln

Lincoln, NE

- Designed and fine-tuned a **DeBERTa-based LLM** (1.5B parameters) for semantic similarity detection on text, advancing NLP research with benchmark results. Publication: <https://digitalcommons.unl.edu/computerscidiss/215/>
- Developed a **semantic search engine** leveraging sentence embeddings, enabling context-aware search and recommendation capabilities for real-world applications.
- Engineered ML/AI workflows using **NLP, computer vision, pattern recognition, topic modeling and feature engineering** to derive research insights.
- Conducted **large-scale data analysis** and feature extraction using PyTorch, TensorFlow, Pandas, and NumPy, delivering actionable insights for research and experimentation.
- Taught and mentored 300+ students in Data Analytics, Machine Learning and Applied AI concepts.

### Software Engineer Intern

May 2020-Aug 2020

#### DMSi Software

Omaha, NE

- Developed a real-time **2D Image Generation** web app using React, TypeScript, Go, PostgreSQL.
- Created RESTful API endpoints with Golang and Gin to facilitate users to add/update/delete BOMs (Bill of Materials).
- Proposed and administered DBMS Hashing on Azure BLOB storage to improve Image Generator response time by over 60%.

### Software Engineer

Oct 2017-May 2019

#### Login Information Systems

Nepal

- Performed **Full-stack development** for the company website using Object Oriented PHP, HTML/CSS, and MySQL.
- Customized **Data Warehousing solutions** using Oracle 11g/12c for major enterprise clients (Express, Petco, Groupe Dynamite).
- Initiated extensive SQL Query optimization and Database tuning to **reduce processing time by 50% - 80%**.
- Remodeled **Analytical Reporting** structures from the ground up to boost customer BI experience for £640+ million revenue UK retailer.

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## EDUCATION

**Master of Science in Computer Science**, University of Nebraska-Lincoln

**Bachelors of Computer Engineering**, Pokhara University