

# Roopa Chiluvuri

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## WORK EXPERIENCE

### **Amazon Web Services Software Dev Engineer**

**May 2023 - August 2023**

- Architected and implemented a unified wrapper workflow in Amazon RDS, effectively **reducing code duplication by 70%** and streamlining the process of invoking external services.
- Leveraged the Spring Framework to design a scalable solution, resulting in a notable **50% reduction** in workflow execution time and enhanced maintainability.
- Acquired proficiency in managing CI/CD pipelines, IAM roles, DynamoDB, and SWF workflow orchestrations, demonstrating a strong understanding of N-Tier architecture principles and ORM methodologies.
- Collaborated with cross-functional teams to resolve technical issues, conducting code reviews to ensure high code quality and system stability.

### **Capgemini Software Developer**

**October 2020 - December 2021**

- Developed and sustained a large-scale health insurance web application with **React** and **Node.js**, yielding a substantial **20% increase in user engagement**.
- Developed web interfaces, ensuring compatibility across browsers and mobile OS, delivering a unified user experience.
- Recognized and **resolved 15 minor glitches** within the current system, showcasing a profound comprehension of the business ramifications tied to these issues.
- Automated testing with Selenium and Jest, **reducing testing time by 70%** and improving code quality.
- Coordinated with product managers and stakeholders to gather requirements and translate them into technical specifications, ensuring alignment with business objectives.
- Led a team of junior developers in implementing new features, mentoring them on best practices and code optimization techniques.

### **Artha Solutions Data Engineer**

**May 2019 - August 2019**

- Conducted data profiling and cleansing on extensive datasets using Python and SQL, leading to a **20% boost in data accuracy and quality**, enabling more dependable business insights.
- Performed data analysis and delivered regular management reports, resulting in a **15% increase in operational efficiency** through data-driven insights and actionable recommendations.
- Collaborated in developing and implementing robust data governance policies aligned with industry standards and regulations, including GDPR, to maintain data integrity and compliance.

## SKILLS

**Languages & Databases** – Java, Python, Ruby, C, C++, C#, Go, SQL, MongoDB, Oracle, PostgreSQL, Swift.

**Web Technologies** – React, Node JS, JavaScript, HTML, CSS, Bootstrap, TypeScript, Selenium, UNIX.

**Frameworks & Cloud** – Kubernetes, Docker, Web Sockets, AWS, Java Spring Boot, Agile, Git, Hadoop, Spark, Kafka, Jenkins.

**CERTIFICATIONS** - AWS Cloud Technical Essentials

## EDUCATION

### **San Jose State University**

**January 2022 - December 2023**

*M.S. Software Engineering – Software Development, Machine Learning, Deep Learning*

### **VNR VJIET**

**August 2016 - September 2020**

*B.Tech. Information Technology – Statistics, Computer Science, OS, Cyber Security, DBMS*

## PROJECTS

### **Airport Management System**

- Collaborated on a team to develop an Airport Management System with Python (Django), SQLite, HTML/CSS, and achieved a 96% accuracy rate with a flight price prediction feature using Random Forest.
- Implemented role-based authentication, reducing unauthorized access by 80%, and maintained a 99.9% uptime after deploying on PythonAnywhere.

**Contradictory, My Dear Watson | Won 3<sup>rd</sup> place in Kaggle competition.**

- Leveraged TPUs for detecting contradiction and entailment in multilingual text.
- Utilized BERT, ALBERT, DistilBERT, and RoBERTa for model building, finding RoBERTa combined with external multilingual datasets to deliver superior results.