

# Jaswanth Reddy Vulchi

Boca Raton, Florida, United States

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## EDUCATION

**Florida Atlantic University, Boca Raton, Florida**

Jan 2024- Dec 2025

Master's degree in Computer Science

GPA: 3.7/4

Relevant Coursework: Software Engineering, Cloud Sec, Cloud Computing, Computer Data Security, GenAI

## SKILLS

**Core Skills:** Core Java, Python, Swift UI, React, Web Applications

**DevOps & SRE Tools:** Docker, Jenkins, Git, ELK (logging), Kong Gateway, Nginx, Apache, Kubernetes, Bash, AWS, GCP, Ansible, Grafana, Prometheus, SonarQube, Redis, OpenShift, Terraform, Azure, Operating Systems (Linux/Ubuntu)

**Additional Skills:** Enterprise Software Design, Gen AI, Agentic AI, LLMs

## EXPERIENCE

**Florida Atlantic University**

Jan 2025 - Present

Graduate Teaching Assistant - TA

Boca Raton, Florida

- Created and evaluated assignments to enhance student understanding and communication.
- Applied machine learning algorithms like Random Forest, KNN, and K-Means Clustering to VANETs for tasks such as detecting outliers, predicting traffic flow, and preventing accidents using predictive analytics.
- Deployed the Teaching Assistant Management System (TMS) on the Owl Cloud (FAU Cloud Computing Resource) using CI/CD, Git, Docker, and Kubernetes to improve system reliability, streamline deployment, enhance collaboration, and simplify the application process for TA positions.

**Star Health & Allied Insurance Co Ltd**

Jul 2022 - Oct 2023

Site Reliability Engineer (SRE)

Chennai, India

- Implemented CI/CD pipelines using Jenkins, Run-Deck, and AWS-ROSA, and integrated Dynatrace for real-time monitoring and issue detection, improving deployment efficiency and system reliability.
- Applied VAPT fixes in the production environment, addressing security vulnerabilities, including the OWASP Top 10, troubleshooting prod issues to enhance Star Health's security and support smooth business operations.
- Streamlined branching strategies, automation processes, knowledge transfer and API documentation to help new team members understand and contribute quickly.
- Presented POCs for Istio service mesh, Redis, and Kong API Gateway to optimize cloud infrastructure, improve security, and enhance application reliability. Additionally, integrated AWS and OpenShift to optimize cloud infrastructure, reduce deployment times, ensure scalable cloud operations, and proactively monitor and optimize systems to improve stability and uptime.
- Integrated Site24x7 across all cloud machines to actively monitor logs and configured alerts for server outages or application downtime, ensuring automatic notifications were sent to leads via email. This enhanced the application uptime and response time for incident responses.

## PROJECTS

**Suspicious Traffic Analysis (DBSCAN) & Securing APIs with Kong Gateway.** Link Jan 2024 - Apr 2024

- The system aims to detect abnormal patterns by collecting and analyzing Nginx logs, particularly focusing on HTTP status codes like 499, 400, 404, and other failure responses. The primary goal is to enhance API security.

**Project Migration from BitBucket to Gitlab**

May 2023 - Aug 2023

- As part of the project migration team (SRE), successfully migrated repositories from Bitbucket to GitLab, setting up CI/CD pipelines, creating repositories, implementing branch restrictions, and making necessary production environment changes, all within the allocated time frame.

## Achievements

**Published Docker Course in Udemy:** 700+ learners in the first week, 4.8 Instructor Rating

**ResearchGate Statics:** 80.7 Research Interest, 31k reads, 6 recommendations, 6 preprints.

**Performance-Based Recognition:** Awarded an annual performance incentive for exceptional performance at STAR Health and Allied Insurance Company Ltd. for the financial year 2022-23.