

# Sai Sriram Ampapurapu

Aspiring Devops Engineer ❖ ssram4298@gmail.com ❖ (925) 549-0930 ❖ Orlando, FL ❖ [Linkedin](#) ❖ [Portfolio](#)

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## EDUCATION

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### University Of Central Florida, Orlando, FL

*Master of Science in Computer Science*

Aug 2022 - May 2024

GPA 3.98

## WORK EXPERIENCE

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### Graduate Teaching Assistant

Jan 2023 - May 2024

*University of Central Florida, Orlando, FL*

- Conducted technical workshops and regular sessions to explain complex concepts and infrastructural setups, enhancing student understanding and interest in computer science.
- Effectively addressed doubts of students and facilitated complex discussions through clear and precise communication, crucial in the fast-paced academic setting.

### DevOps Engineer

Jul 2019 - Jun 2022

*Wipro Technologies Ltd. Nokia, New Jersey, United States*

- Led the design and implementation of scalable microservices architectures using **Docker and Kubernetes**, enhancing product scalability and deployment flexibility for our client Nokia..
- Engineered robust **CI/CD pipelines using Jenkins and Gitlab**, integrating security assessments and compliance checks to enhance deployment safety and efficiency.
- Developed and maintained **automated test scripts** in Python and Selenium, optimizing testing processes.
- Pioneered a **machine learning-based system** for test failure classification which cut rework times by 75%
- Actively Collaborated with engineering teams in Italy and US to plan and execute deployments, aligning with business objectives and operational needs.

### Software Developer Intern

May 2018 - Jun 2019

*Broadridge Financial Solutions, Hyderabad, India*

- Developed a full-stack web application using **React.js and Django REST Framework**, hosted on AWS with enhancements for high availability and disaster recovery.
- **Optimized PostgreSQL database** performance on AWS, improving data management and reliability.

### Web Developer Intern

Sep 2017 - Nov 2017

*Tekie.in, Remote, New Delhi, India*

- Developed an e-learning website, utilizing Django, focusing on responsiveness and cross-platform compatibility.
- Enhanced site responsiveness and cross-platform compatibility, improving user experience and contributing to a 20% increase in user engagement.

## TECHNICAL SKILLS & CERTIFICATIONS

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**Programming & Frameworks** - Python, C++, Java, Javascript, React.js, Django, RestAPI, SQL

**Cloud & DevOps** - Linux, GIT, GitHub, Docker, Kubernetes, Jenkins, Terraform, Ansible, AWS(EC2, S3, Lambda, ALB, EBS, RDS), AWS CLI, Powershell, Bash

**DataBases & Monitoring** - PostgreSQL, MongoDB, Prometheus, Grafana

**Certifications** - AWS Sysops Administrator Associate, AWS Solutions Architect Associate, Hashicorp Terraform Associate

## PROJECTS

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- **Netflix Application using React.js** - Deployed a Netflix clone as a Docker container on a Kubernetes cluster using a secure CI/CD pipeline managed by Jenkins. This project utilized **React.js for frontend** and DevOps tools including Docker, SonarQube, Trivy for security, Prometheus and Grafana for monitoring, and ArgoCD with Helm for streamlined Kubernetes deployments.
- **Wordpress Application using Terraform**- Deployed a highly available and scalable wordpress application on AWS using Terraform. This project uses ALB, ASG, **RDS(MySQL)** and VPC for scalability and security.
- **AI Powered Blog App using Django** - Developed an AI-powered blog application using Django and the OpenAI API, enabling automatic generation of unique blog content with a single click.