

# SAI KIRAN

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## SUMMARY

Computer Science graduate and **AWS Certified Solutions Architect – Associate** with a strong foundations in software development and cloud computing. Proficient in Java and Python with professional, academic experience building and deploying scalable applications using AWS services in Linux environments. Currently working as a Junior Software Developer, contributing to backend optimization and CI/CD improvements. Demonstrated leadership and communication skills as a Graduate Assistant, mentoring 50+ students in a programming course.

## PROFESSIONAL EXPERIENCE

### DevOps Engineer

Deltasoft Solutions - Texas, USA

March 2025 - Present

- Contributed to designing and implementing scalable **Java backend services and React.js front-end features**, leveraging academic and project experience to accelerate onboarding.
- Collaborated with the cloud team to deploy and manage applications on **AWS (EC2, S3, IAM, CloudFormation)**, improving system reliability and reducing manual configuration efforts.
- Contributed to enhancing **CI/CD pipelines**, cutting release cycle time by **20%** through automated build and test workflows.
- Collaborated closely with cross-functional teams in an Agile environment, conducting code reviews and providing technical input on system design discussions.

### DevOps Engineer

Osair Technologies - Hyderabad, India

January 2022 - December 2022

- Assisted in building and maintaining **Java backend services and React.js user interfaces** under senior developer guidance.
- Supported **API integration and testing**, helping reduce bug resolution time by **15%** through effective debugging and documentation.
- Gained exposure to **cloud deployments on AWS EC2** and basic **DevOps practices** like automating builds and deployments.
- Collaborated in an Agile team environment, participating in stand-ups, code reviews, and sprint tasks.
- Wrote **unit tests and debugging scripts** to ensure code quality and improve system stability.

## EXPERIENCE

### Graduate Teaching Assistant

Jan 2024 - Jan 2025

- Supported instruction for a programming course, helping over 50 students strengthen their understanding of object-oriented programming and foundational CS concepts.
- Led discussions and assisted during lab sessions, breaking down complex topics into simpler terms, which contributed to a noticeable improvement in student performance.
- Reviewed more than 100 coding assignments, offering clear, constructive feedback to encourage better coding practices and logical problem solving.
- Developed strong communication and mentoring skills, reinforcing a collaborative learning environment and sharpening technical leadership qualities.

## SKILLS

### Programming Languages :

Python, Java, C++, JavaScript, C

### Web Technologies:

React, HTML, CSS, PHP

### Cloud Platforms :

AWS (EC2, S3, RDS, DynamoDB, Lambda, SNS)

### Database Management :

MySQL, Amazon RDS, DynamoDB

### Operating Systems :

Windows, Linux

### Networking:

TCP/IP, DNS, Routing, Firewalls

### Tools & Frameworks:

Git, Android Studio, NetBeans

## CERTIFICATIONS

- AWS Certified Solutions Architect - Associate | 2025  
[https://www.credly.com/badges/d7730cb7-d30e-4d7d-9ca7-ac7dc25b148d/public\\_url](https://www.credly.com/badges/d7730cb7-d30e-4d7d-9ca7-ac7dc25b148d/public_url)
- AWS Certified Cloud Practitioner | 2025  
[https://www.credly.com/badges/10597c59-b4d4-41d7-8a75-1c6d1a7f0e20/public\\_url](https://www.credly.com/badges/10597c59-b4d4-41d7-8a75-1c6d1a7f0e20/public_url)

## EDUCATION

### Master of Science in Computer Science - GPA 3.90

George Mason University - Fairfax, VA • 2024

### Bachelor of Technology in Computer Science and Engineering - GPA 3.70

Sri Indu College of Engineering and Technology - Hyderabad, India • 2022

## PROJECTS

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### Optimized Object's Structure Estimation using mmWave Sensor | Python, MATLAB, Linux

George Mason University, September 2024 - December 2024

- Engineered a system to reconstruct 3D object planes from mmWave sensor data using **Delaunay Triangulation**, enabling real-time spatial structure estimation.
- Implemented **K-Means clustering** for noise reduction, improving model precision and achieving a **58.7% Structural Similarity Index Measure (SSIM)**.
- Designed and optimized data processing workflows in Linux, handling large datasets to enhance system performance and reduce reconstruction latency.
- Applied software engineering best practices in modular algorithm development, data pipeline optimization, and result validation - aligning with scalable, production-grade system design.

### Online Banking System | Python, JavaScript, CSS, MySQL, AWS

George Mason University, September 2023 - December 2023

- Built a **full-stack banking app** with a login page for customer and employee; supporting account creation, deposits, withdrawals, transfer between accounts, balance checks and account merging.
- Designed a normalized **MySQL** schema with ACID transactions to ensure data consistency across 20+ simulated user accounts.
- **Hosted on AWS:** Backend on **EC2 (Linux)**; static frontend on **S3**; access controlled via **security groups**.

### Mobile Application/Website for Frequent Flyer Program | Java (Android), HTML/CSS/JavaScript, AWS, RDS

George Mason University, January 2023 - April 2023

- Developed a **Java-based Android app** and **responsive web interface** using HTML, CSS, and JavaScript for an airline's frequent flyer program, enabling users to manage accounts, book flights, and redeem points.
- Designed and deployed backend services on AWS, using **Amazon RDS** to create a scalable and secure data layer for user and booking information.
- Integrated cloud services with mobile and web frontend via **REST APIs**, ensuring real-time data sync and high availability.
- Focused on modular design, API clarity, and full-stack integration — demonstrating skills in building end-to-end, production-ready systems.