

# Sai Kiran V

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## SUMMARY

Computer Science graduate and **AWS Certified Solutions Architect – Associate** with 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 Java Developer, focusing on API development, microservices integration, and CI/CD pipeline enhancements. Strong leadership and communication abilities demonstrated through mentoring **50+ students** as a Graduate Assistant in a programming course.

## PROFESSIONAL EXPERIENCE

### Java Developer

Texas • Deltasoft Solutions • March 2025 – Present

- Collaborated with a team to design and deploy **RESTful APIs** using **Spring Boot**, improving system scalability and response time by **30%**.
- Assisted in migrating legacy monolithic applications to **microservices architecture**, reducing deployment time by **40%**.
- Worked with the DevOps team to implement **CI/CD pipelines** using **Maven** and **GitHub Actions** for automated builds and deployments.
- Contributed to optimizing **database queries and asynchronous processing**, enhancing performance by **25%**.
- Participated in code reviews and applied **design patterns** to maintain code quality and consistency across the team.
- Coordinated with **frontend developers** to ensure seamless integration between backend APIs and user interfaces.

### Java Developer

Hyderabad, India • Osair Technologies • January 2022 – December 2022

- Developed and maintained **3+ Java-based applications** for user management and transaction processing.
- Applied **OOP principles** and optimized Java Collections, reducing redundant code by **25%**.
- Integrated **MySQL** databases using **JDBC** for secure CRUD operations and improved query performance by **20%**.
- Collaborated in a **team of 3** to build a mini library management system using Java and MySQL.
- Debugged and refactored over **2,000 lines of code** to enhance backend reliability and maintainability.
- Implemented exception handling and multithreading to improve application stability by **15%**.

## EXPERIENCE

### Graduate Teaching Assistant

George Mason University

January 2024 – January 2025, Fairfax, VA

- 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.

## CERTIFICATIONS

### AWS Certified Solutions Architect | 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)

## SKILLS

**Programming Languages:** Python, Java, C++, C, JavaScript, SQL

**Web Technologies:** HTML, CSS, React, Node.js, PHP, RESTful APIs, JSON

**Cloud & DevOps:** AWS (EC2, S3, RDS, DynamoDB, Lambda, SNS), Docker, CI/CD

**Database Management:** MySQL, Amazon RDS, DynamoDB

**Frameworks & Tools:** Spring Boot, Git, Postman, Android Studio, NetBeans, VS Code

**Operating Systems:** Linux, Windows

**Networking:** TCP/IP, DNS, Routing, Firewalls

## EDUCATION

### Master of Science in Computer Science

George Mason University • Fairfax, VA • 2024 • 3.90

### Bachelor of Technology in Computer Science and Engineering

Sri Indu College of Engineering and Technology • Hyderabad, India • 2022 • 3.70

## PROJECTS

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### Optimized 3D Object Structure Estimation with mmWave Sensors | Python, MATLAB, Linux

George Mason University • August 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 • August 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 App and 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 frontends 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.