

# Rohit Arodi Ramachandra

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## Education

### Georgia State University

December 2025

*Masters of Science in Computer Science*

*Atlanta, Georgia*

Big Data Programming, Fundamental Data Science, Theory and Application of Simulation, Cloud Computing, Advanced Algorithms, Cryptography.

### JSS Science and Technology University

May 2021

*Bachelor of Science in Computer Science, 8.84 CGPA*

*Karnataka, India*

Database Management Systems, Software Engineering, Distributed Computing, Design and Analysis of Algorithm

## Technical Skills

**Languages:** Java, Python, SQL, NOSql, C++, Spark, JavaScript

**Developer Tools/ Frameworks:** AWS (EC2, S3, Iot Core, Lambda, EKS, Elastic Beanstalk, Dynamo DB, SNS), Azure (Iot hub, Function App, Event Hubs, ML Studio, Blob Storage, Cosmos DB, AKS, WebApp) Kubernetes, Hadoop, HDFS, MapReduce, Docker, Apache Spark, HiveMQ, Power BI, Matplotlib, Node-Red, Redis, Rest APIs, Postman, SpringBoot, Spring, Linux, Azure DevOps, Git

**Certificates:** Coursera: Algorithmic Toolbox UC San Diego, Coursera: AWS Machine Learning, Coursera: Testing and Debugging in Python

## Experience

### TRiO Student Support Service - Georgia State University

August 2024 – Present

*Graduate Administrative Assistant*

- Led technical workshops and developed learning materials in cloud computing, networking, and programming for undergraduate students. Enhanced student engagement through strategic social media management and streamlined administrative processes.
- Provided academic mentorship and analyzed student progress data while supporting TRIO SSS events. Established efficient documentation systems and offered comprehensive career guidance to computer science students.
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### Bosch Global Software Technology

August 2021 – July 2024

*Software Developer - Digital Twin Solution*

- **Cloud Architecture:** Designed, implemented and maintained enterprise-level cloud architectures on Azure and AWS to streamline operational efficiency and scalability for the Digital Twin solution.
- **Global Collaboration:** Collaborated with cross-functional teams, contributing to customer presentations, strategic board member discussions, and global events such as the IoT World Congress in Spain.
- **Performance Optimization:** Led prototyping efforts, improving the user experience and performance of the Digital Twin solution, and conducted asset audits for large-scale clients, including one of India's largest steel manufacturers.
- **Kubernetes Deployment:** Developed and integrated REST APIs using Python Flask framework, handling 1000+ concurrent requests with 99.9% uptime machinery such as industrial bearings.
- **ML Pipeline:** Developed predictive models for industrial equipment, specifically for estimating the remaining useful life (RUL) of critical machinery such as industrial bearings.
- **Security Enhancement:** Applied machine learning techniques, including Extreme Learning Machines and Subtractive Clustering, to create predictive models for industrial equipment, enabling proactive maintenance.

## Projects

### Modeling & Simulation Project | DEVSAVA, Data Assimilation, Statistical Analysis(RMSE)

December 2024

- Developed and implemented particle filtering algorithms for data assimilation in DEVSAVA.
- Analyzed system performance using joint state-parameter estimation with varying particle counts.
- Conducted statistical analysis using RMSE metrics and presented findings through visualization.

### Mobile App Development Projects | Java, XML, Firebase, API integration

July 2021

- Created two award-winning Android applications: Diaguru, a doctor-patient communication platform, and Route IT, a travel recommendation system.
- Led full-stack development using Android Studio, implemented cloud services and Google APIs. Secured third place in the MHRD Ideathon with 97% user satisfaction.