

Rohit Arodi Ramachandra

Data and Cloud Intern — Atlanta, Georgia

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Education

Georgia State University

Masters of Science in Computer Science, 3.72 GPA

December 2025

Atlanta, Georgia

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

JSS Science and Technology University

Bachelor of Science in Computer Science, 8.84 CGPA

May 2021

Karnataka, India

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

Technical Skills

Languages: Python, SQL, NoSQL, Spark, JavaScript, Shell Scripting

Developer Tools/Frameworks: AWS (EC2, S3, IoT Core, Lambda, EKS, Elastic Beanstalk, DynamoDB, SNS), Azure (IoT Hub, Function App, Event Hubs, ML Studio, Blob Storage, Cosmos DB, AKS, WebApp), GCP (Compute Engine, BigQuery, Cloud Storage), Kubernetes, Docker, Docker Trusted Registry, Terraform, Jenkins, Git, Azure DevOps, Ansible, Hadoop, HDFS, MapReduce, Apache Spark, HiveMQ, Power BI, Matplotlib, Node-RED, Redis, REST APIs, Postman, SpringBoot, Spring

OS/Networking/Virtualization: Linux (Ubuntu/CentOS), TCP/IP, DNS, DHCP, Firewall, VMware, OpenStack

Methodologies: Agile (SCRUM), CI/CD pipelines, Cloud-native AI/ML integration

Experience

Bosch - Farmington Hills, MI

June 2025 – Present

Cloud and Data Intern

- Designing and implementing a scalable multi-customer deployment framework using Terraform and Azure DevOps to enable seamless provisioning of Bosch Digital Twin infrastructure into new customer tenancies. Leading the transition of the solution toward a SaaS-ready architecture by isolating customer configurations (e.g., tfvars, config.yaml) while reusing core infrastructure code. Defining secure and reusable deployment strategies, including authorization of the service principal, remote backend management, and automation of CI / CD pipelines. This work is pivotal in enabling repeatable and reliable customer onboarding, directly contributing to the productization of the BDTI platform.

Bosch Global Software Technology

August 2021 – July 2024

Senior 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 | DEVSJAVA, Data Assimilation, Statistical Analysis(RMSE)

December 2024

- Developed and implemented particle filtering algorithms for data assimilation in DEVSJAVA.
- 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.