

RAM PRAKASH YALLAVULA

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Software Engineer with hands on experience building backend services and REST APIs using Java, Python, and C#, and deploying cloud based applications on AWS. Strong foundation in data structures, algorithms, distributed systems, and security fundamentals, with experience following the SDLC in Agile environments. Proven ability to write clean, maintainable code, collaborate through code reviews, and deliver scalable, reliable software. Motivated to continuously learn and contribute to cloud native systems and AI enabled features.

Education

Master of Science in Engineering Science, University at Buffalo (SUNY) Jan 2026
Bachelor of Technology in Computer Science (Honors), KL University May 2024

Technical Skills

Languages: C, Java, Python, C++, GO, C#, JavaScript, Shell Scripting (Bash), SQL

Backend & APIs: Spring Boot, Django, REST APIs, MVC Architecture

Cloud & Distributed Systems: AWS (EC2, S3, Lambda), CI/CD pipelines (GitHub Actions), Linux, Kubernetes, Docker

Databases: MySQL, PostgreSQL

Tools: Git, Docker, Postman, Jupyter, JSON, XML, Jenkins (CI/CD), Automation Testing

Concepts: Data Structures, Algorithms, OOP, Distributed Systems, Security Fundamentals, Large Scale System Design, SDLC, Distributed Data Processing (MapReduce Concepts), Agile, Microservices, Workflow Automation

Exposure: AI-powered development tools, recommendation systems, data pipelines

Experience

Development Intern at AICTE Mar 2022 – May 2022

- Developed Python based automation scripts to streamline internal workflows, reducing manual processing effort.
- Collaborated with cross functional teams in an Agile environment, participating in sprint planning, standups, and reviews.
- Designed and implemented proof of concept solutions focused on reliability, maintainability, and reusability.

Projects

Project Management System (Backend Platform) *Python, Django, AWS*

- Built a full-stack project management platform with secure authentication, role-based access, and RESTful APIs
- Implemented task creation/tracking and deadline monitoring services using Django and PostgreSQL
- Deployed on AWS EC2 with CI/CD pipelines to enable reliable updates and improve availability

Waste Food Management System *Java, Spring Boot, MySQL*

- Developed a backend system to manage donations, users, and distribution workflows
- Designed REST APIs in Spring Boot using clean architecture and MVC principles
- Integrated MySQL for persistence and implemented notification triggers for real-time updates

NYC Taxi Data Processing Pipeline *Python, Spark, AWS*

- Built a distributed data pipeline to process large NYC Taxi datasets using Spark and Python
- Implemented ETL workflows for ingestion, transformation, and validation with reusable modules
- Deployed pipeline components on AWS with a focus on performance, fault tolerance, and scalability

Job Recommendation System *Python, NLP*

- Implemented a content-based recommendation service to match users with relevant job postings
- Built text processing pipelines and similarity scoring logic to deliver personalized recommendations
- Demonstrated exposure to AI-powered features while maintaining clean, modular backend code

Certifications

AWS Certified Cloud Practitioner

AWS Certified Solutions Architect – Associate

Red Hat Certified Enterprise Application Developer

Soft Skills

Leadership, Communication, Collaboration, Problem Solving, Ownership, Adaptability, Technical Writing