

# Ramya Sri Achanta

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## Summary

Backend & AI Engineer (Go | Python | Cloud | ML) with 2+ years of experience designing scalable microservices and ML-integrated systems across AWS and Azure. Skilled in REST/gRPC APIs, MLOps, and observability-driven architecture. Passionate about building intelligent, resilient backend systems that scale to millions of users.

## Skills

- **Programming Languages:** Go, Python, Java, JavaScript, UNIX, C++, Kotlin, C# .NET Core
- **Tools and Platform:** Selenium, Visual Studio, PyCharm, Anaconda, GitHub, Figma, OpenAPI Specification, GraphQL, Unit Testing (PyTest, JUnit, Jest), Web Servers (Apache, Nginx)
- **Web Development:** React.js, Angular, Tailwind CSS, Django, Spring Boot, Flask, Node.js, Next.js, HTML, CSS
- **Databases:** MySQL, PostgreSQL, MongoDB, SQLite (with connection pooling)
- **Monitoring & Systems:** Production monitoring, on-call support exposure
- **Cloud Technologies:** AWS (EC2, S3, Lambda, RDS), Google Cloud Platform (GCP), Microsoft Azure, Docker, CI/CD (GitHub Actions, Jenkins)
- **Network and Security:** REST APIs, WebSocket, TCP/IP, DNS, Load Balancing, IAM, VPNs
- **Big Data & Search:** Spark, Kafka, Elasticsearch
- **AI/ML & Data Science:** TensorFlow, PyTorch, Scikit-learn, Keras, RAG/LLM Integration, Anomaly Detection, MLOps Practices

## Professional Experience

### Titan Commercial

July 2025 - Present

Data Analyst (Internship)

Houston, TX

- Designed and deployed automated AWS pipelines (Lambda, ECS, S3) integrated with Make, AutoCAD, and InDesign workflows to auto-generate property flyers and marketing templates, reducing manual design time from 8hrs to 60 seconds and improving turnaround for 50+ listings weekly.
- Built Power BI dashboards delivering real-time insights into receivables, property revenue, and key business KPIs to support finance leadership decision-making.

### Object Tech, Inc

May 2025 - Present

ML Software Developer (Internship)

Fremont, CA

- Collaborated in a startup engineering team, rapidly prototyping and deployed an OmniParser + API pipeline in Python (FastAPI/Django) with AWS Lambda & ECS, automating document/image parsing workflows and enabling self-service dashboards for end-users.
- Designed and scaled APIs (OpenAPI/GraphQL) for consistent integration across distributed microservices, ensuring high availability and reliability.
- Integrated deep learning and RAG-based chatbot (FAISS + LLM streaming), optimizing real-time Q&A to less than 200ms latency and improving parsing accuracy by 40%.

### Radar Ventures Private Limited

Sep 2022 - Dec 2023

Software Development Engineer - I

Chennai, India

- Applied design patterns to develop and optimize Golang microservices (REST & gRPC) for logistics workflows, leveraging OOP principles to achieve 99.9% uptime while processing 50K+ daily transactions.
- Led migration of 3+ product lines to Next.js, reducing dashboard load times by 20% for 5K+ daily users and improving logistics planning efficiency.
- Collaborated in Agile/Scrum teams, provided on-call support and debugging for production, ensure scalability and reliability in traffic environments.

### PricewaterhouseCoopers India (PwC)

Jan 2022 - Jul 2022

Risk Advisory (Internship)

Hyderabad, India

- Developed Python automation scripts for DevSecOps, reducing manual validation time by 60% and enhancing deployment efficiency.

### Microsoft India (R&D) Pvt Ltd

Jun 2021 - Aug 2021

Software Engineer (Internship)

Hyderabad, India

- Developed the 'Show Changes' feature in Excel Online using React.js, enhancing collaborative editing visibility for over 2M users; collaborated with product managers and QA teams to test and validate user flows for seamless integration into Microsoft Office 365.

## Education

### University of Houston-Clear Lake

Jan 2024 - Dec 2025 (Expected)

Master's Degree, Computer Science (GPA:3.82/4.0)

**Coursework:** Database Management, Concurrent Programming, Machine Learning, Artificial Intelligence, Enterprise Resource Planning (SAP)

### Amrita Viswa Vidyapeetham

Jul 2018 - May 2022

Bachelor's Degree, Computer Science and Engineering (GPA: 3.05/4.0)

**Coursework:** Cloud Computing, Object-oriented Programming, Unix Tools and Scripting, Big Data, Data Structures & Algorithms

## Projects

### DNS Protocol Analyzer with AI-based Spoof Detection

Sep 2024 - Nov 2024

- Built a Python analyzer to monitor, validate DNS response pairs, detecting protocol violations, malformed packets & timing anomalies.
- Applied ML techniques to identify DNS spoofing and cache poisoning attempts with 92% detection accuracy, enhancing network-level threat detection and reducing potential attack surfaces. Tested using PyTest and automated validation scripts to ensure robustness.

### University Course Portal

Feb 2024 - May 2024

- Developed a full-stack course management web application using HTML, CSS, Django, and PostgreSQL, supporting course registration, assignments, quizzes, and real-time grade tracking.
- Simulated and validated a complete network environment in Cisco Packet Tracer, ensuring 100% packet flow accuracy and hands-on understanding of HTTP/SMTP traffic behavior in web applications.

### Smart Voting System

Jun 2021 - Dec 2021

- Developed a secure e-voting platform integrating facial recognition (OpenCV) for voter authentication & a blockchain-based ledger for vote storage.