

AMOGH JAGADISH TAMBAD

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EDUCATION

Master of Science, Computer Science Arizona State University, Tempe, AZ	May 2025 4.00 GPA
Bachelor of Technology, Computer Science REVA University, Bangalore, KA	May 2021 3.77 GPA

CERTIFICATIONS

- AWS Solutions Architect Associate

PROFESSIONAL EXPERIENCE

Software Engineer DriverAI LLC, Remote	Dec 2025 - Present
Software Engineer (Infrastructure & Reliability) Intern Arch Mortgage Insurance, Greensboro, NC	Jun 2024 - Aug 2024
Software Engineer (Systems) Cerner Healthcare (Oracle Cerner), Bangalore, KA	May 2021 - Jul 2023

• Engineered **Terraform** automation pipelines for **AWS** infrastructure provisioning, implementing security controls and best practices across multiple services

• Implemented gamification features with **FastAPI** backend and **MySQL** database to increase user engagement and data collection through reward-based incentives

• Architected a **JavaScript-based** data processing pipeline with **Cribl Stream**, processing 80GB+ daily logs through 10+ conditional routing rules, reducing Splunk ingestion costs by **\$32000** annually

• Developed a container image synchronization system using **Python** and **Ansible**, integrating Red Hat Registry APIs with Nexus Repository to automate artifact management and eliminate **90%** of manual container updates

• Led migration of **500TB+** enterprise healthcare data from on-prem infrastructure to AWS using **Python** and **Bash** scripts and **AWS S3**, reducing storage costs by **30%**

• Built cloud-native data transformation pipelines in **Python** to migrate **80%** of enterprise data (500+ TB) from on-premise infrastructure to AWS, designing workflows that ensured zero data loss and **99.9%** uptime

• Engineered automated monitoring solutions using Python and **Splunk** APIs, developing custom alerting logic and incident response workflows that reduced mean time to resolution (MTTR) by **30%**

• Collaborated with cross-functional teams to deliver **300+** microservice releases, implementing feature flags, **A/B testing** frameworks, and rollback mechanisms that improved deployment safety and enabled rapid iteration

PROJECTS

TalkDoc - AI-based Document Filler Python, FastAPI, React, OpenAI GPT-4 GitHub	Nov 2025
• Built an AI-powered web application using FastAPI and React that automates document form completion through conversational interactions, leveraging OpenAI GPT-4 for natural language understanding and intelligent question generation	
• Implemented dynamic conversation flows and document generation, reducing form completion time by 40% while achieving over 90% accuracy in mapping conversational responses to structured document fields	
RAG Implementation for arXiv Papers Python, DynamoDB, CLIP Slides	Nov 2024
• Devised a multimodal pipeline using Python to extract and vectorize content from 2000+ arXiv papers, implementing CLIP and text embedding models, DynamoDB indexing and vector database storage	
• Implemented a similarity search and summarization pipeline with DynamoDB and GPT-4o mini to deliver concise, contextually relevant responses to user queries with an average response time of under 2 seconds	
• Served as project co-lead, driving technical direction and delivering the final presentation, resulting in a strong grade	

SKILLS

Languages: Python, Go, Java, JavaScript/TypeScript, C++, SQL

Web & APIs: Flask, FastAPI, Spring Boot, Node.js, React.js, REST/GraphQL APIs

Databases: PostgreSQL, MySQL, MongoDB, Redis, DynamoDB, Vector DBs (FAISS, ChromaDB)

Cloud, DevOps, & Monitoring: AWS, Docker, Kubernetes, Terraform, Helm, Git, Jenkins, ArgoCD, Kafka, Linux/Unix, Ansible, Splunk, Zabbix, Prometheus, Cribl

AI/ML: PyTorch, TensorFlow, LangChain, LangGraph, RAG