AMOGH JAGADISH TAMBAD

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EDUCATION

Master of Science, Computer Science May 2025
Arizona State University, Tempe, AZ 4.00 GPA
Coursework: Cloud Computing, Data Processing at Scale, Data Mining, Software Security

Bachelor of Technology, Computer Science May 2021
REVA University, Bangalore, KA 3.77 GPA
Coursework: Data Structure and Algorithms, Operating Systems, Cloud Computing, Computer Networks

PROFESSIONAL EXPERIENCE

Software Engineer Dec 2025 - Present
DriverAI LLC, Remote

- Driving migration from **RDS MySQL** to Amazon **Aurora PostgreSQL**, building **Terraform** automation pipelines to replicate production infrastructure and enable consistent, repeatable deployment across environments
- Engineered **GitHub Actions CI/CD** pipelines automating **Docker** image builds and deployments to **AWS ECR**, reducing deployment time by **30**%

Software Engineer (Infrastructure & Reliability) Intern Jun 2024 - Aug 2024
Arch Mortgage Insurance, Greensboro, NC

- 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

Software Engineer (Systems) May 2021 - Jul 2023
Cerner Healthcare (Oracle Cerner), Bangalore, KA

- Developed and maintained **Java-based** microservices handling 5M+ daily healthcare transactions, implementing **RESTful APIs** and event-driven architectures that reduced patient data retrieval latency by **40%**
- 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 & Containers: AWS (EC2, S3, Lambda, EKS, SQS), Docker, Kubernetes, Terraform, Helm
DevOps & Tools: Git, Jenkins, ArgoCD, Kafka, Linux/Unix, Ansible, Infrastructure as Code
Monitoring: Splunk, Zabbix, Prometheus, Cribl
AI/ML: PyTorch, TensorFlow, LangChain, LangGraph, RAG