

AMOGH JAGADISH TAMBAD

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EDUCATION

Master of Science, Computer Science

Arizona State University, Tempe, AZ

Coursework: Cloud Computing, Data Processing at Scale, Data Mining, Software Security

May 2025

4.00 GPA

Bachelor of Technology, Computer Science

REVA University, Bangalore, KA

Coursework: Data Structure and Algorithms, Operating Systems, Cloud Computing, Computer Networks

May 2021

3.77 GPA

SKILLS

Languages: Python, C++ Go, Java, JavaScript, Typescript, Scala, HTML, XML

Technologies: AWS (EC2, Lambda, S3, ECS, CloudFormation, EKS, ECR), Pandas, Numpy, Spark, Docker, Kubernetes, React, Angular, Flask, Node.js, Terraform, Jenkins, ArgoCD

Database Systems: SQL(MySQL, PostgreSQL), NoSQL (MongoDB)

Tools: Linux, Unix, Git (Version Control), Github, Nginx, Kafka, Redis, Prometheus, Postman, Cursor, CoPilot, Claude Code

LLM/GenAI Frameworks: MCP, LangChain, LangGraph, RAG, VectorDBs (FAISS, ChromaDB)

Miscellaneous: Distributed Systems, RESTful APIs, Microservices, Object-Oriented Programming, Agile, Test Driven Development (TDD), Infrastructure-as-code, Machine Learning, Web Services, Communication, Problem-Solving

PROJECTS

JobTrail - Go-based Job Tracker

May 2025

- Developed a full-stack job tracking application using **Go** backend (Gorilla Mux), **SQLite** database, and **JavaScript** browser extension, reducing manual job application logging time by 80% through automated data capture from 15+ major job boards
- Built **RESTful API** with sub-200ms response times supporting **500+** job records with CRUD operations and real-time filtering, via responsive web interface using **Bootstrap** and **vanilla** JavaScript.
- Engineered cross-platform deployment solution with optimized database queries and binary distributions for Windows, Mac, and Linux systems enabling zero-dependency installation

RAG Implementation for arXiv Papers

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**.

AWS-Based Face Recognition App

May 2024

- Created and deployed a scalable **Flask** web application using **Python** and **Gunicorn** on **AWS EC2**, implementing HTTP-based image uploads through asynchronous processing pipeline leveraging **S3** storage and **SQS** message queuing
- Architected an **auto-scaling** infrastructure that dynamically scales up to 20 EC2 instances based on SQS queue depth metrics, ensuring optimal performance and cost-efficiency for real-time image processing under variable workloads

PROFESSIONAL EXPERIENCE

Software Engineer Intern

Jun 2024 - Aug 2024

Arch Mortgage Insurance, Greensboro, NC

- Built a **JavaScript** and **Cribl Stream** based scalable data processing solution and created 10+ conditional pipelines for log filtering and transformation, implementing custom business logic to filter and route logs from **OpenShift** pods to Splunk
- Engineered a container image synchronization system through **Ansible** automation scripts and **Red Hat registry** APIs that integrates with **Nexus Repository** for artifact management, eliminating 90% of manual update processes

Software Engineer

May 2021 - Jul 2023

Cerner Healthcare (Oracle Cerner), Bangalore, KA

- Designed cloud migration scripts and data transformation pipelines to migrate 80% of enterprise data from on-premises infrastructure to AWS, thereby enhancing access flexibility, security, and cost-efficiency
- Automated the monitoring and alerting systems with **Zabbix** and **Splunk** APIs, developing custom dashboards and incident response automation that sped production resolution by 30%
- Troubleshoot and resolved **Jenkins** pipeline issues, minimizing support ticket resolution time by **40%** and ensuring **99.9%** uptime for **CI/CD** workflows, leading to uninterrupted deployment pipelines
- Deployed **300+** bi-weekly microservice releases, tracked via **JIRA**, through **Chef** configuration management and custom deployment scripts, accelerating delivery of new UI and backend features