

# AMOGH JAGADISH TAMBAD

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## EDUCATION

**Master of Science, Computer Science** May 2025  
Arizona State University, Tempe, AZ 4.00 GPA

**Bachelor of Technology, Computer Science** May 2021  
REVA University, Bangalore, India 3.77 GPA

## CERTIFICATIONS

- AWS Certified Solutions Architect – Associate (SAA-C03)

## PROFESSIONAL EXPERIENCE

**Software Engineer** Dec 2025 - Present  
**DriverAI LLC**, Remote

- 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

**Site Reliability Engineer (SRE) Intern** Jun 2024 - Aug 2024  
**Arch Mortgage Insurance**, Greensboro, NC

- Architected log filtering and routing pipelines using **Cribl Stream** for OpenShift **Kubernetes** clusters, reducing Splunk ingestion by 40-50 GB/day ( **\$32K annual savings** ) and improving search performance by **20%**
- Automated container image synchronization between Red Hat Registry and Nexus Repository using **Ansible** and REST APIs, eliminating **90%** of manual update overhead and ensuring consistent artifact versions across environments

**System Engineer** May 2021 - Jul 2023  
**Cerner Healthcare (Oracle Health)**, Bangalore, India

- 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%**
- Participated in 24/7 on-call rotations, triaging P1/P2 incidents and performing **root cause analysis**, reducing mean time to resolution (MTTR) by **35%** through improved runbooks and automated diagnostics
- Troubleshoot **Jenkins** pipeline issues through root cause analysis, minimizing support ticket resolution time by **40%** and ensuring **99.9%** uptime for **CI/CD** workflows, leading to uninterrupted deployment pipelines
- Managed **300+** bi-weekly microservice deployments, using **Chef**, while also tracking them with **JIRA**, accelerating delivery of new UI and backend features in a fast-paced production environment

## ACADEMIC 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

**AWS-based Face Recognition App** | **Python, AWS** | [GitHub](#) May 2024

- Developed and deployed a **Flask**-based image recognition app using **Gunicorn** on AWS EC2, enabling HTTP REST API based uploads and forwarding images to **S3** via **SQS** for asynchronous processing using AWS service API.
- Designed an auto-scaling app tier that scaled up to **20** EC2 instances based on **SQS** queue depth, ensuring efficient, real-time image processing under varying workloads

## SKILLS

**Languages & Scripting:** Python, Go, Bash, Java, SQL

**Cloud & Containers:** AWS, Docker, Kubernetes, Helm

**Infrastructure as Code:** Terraform, Ansible, Chef, CloudFormation

**CI/CD:** Jenkins, GitHub Actions, ArgoCD

**Observability:** Splunk, Zabbix, Prometheus, Datadog, Grafana

**Databases:** PostgreSQL, MySQL, MongoDB, Neo4j

**Core Competency:** Distributed Systems, Microservices, Incident Management, System Design, Agile/Scrum