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, India 3.77 GPA
Coursework: Data Structure and Algorithms, Operating Systems

SKILLS

Programming Languages: Python, C++ Go, Java, JavaScript, Typescript, Scala, HTML, XML
Technologies: AWS (EC2, Lambda, S3, ECS, CloudFormation, EKS, ECR), TensorFlow, Docker, Kubernetes, Terraform, Knative, Jenkins, Github Actions, Chef React, Angular, Flask, Node.js
Tools: Linux (RHEL, Ubuntu), Git (Version Control), Github, Ansible, Gitlab, Nginx, Kafka, Redis, Prometheus, Postman, Cursor, CoPilot, Claude Code
Database Systems: SQL(MySQL, PostgreSQL), NoSQL (MongoDB)
LLM/GenAI Frameworks: MCP, LangChain, LangGraph, RAG, VectorDBs (FAISS, ChromaDB)
Miscellaneous: Distributed Systems, RESTful APIs, Microservices Architecture, Object-Oriented Programming, Agile, Test Driven Development (TDD), Infrastructure-as-code, Cloud Infrastructure, Communication Skills, Collaboration, Writing

WORK EXPERIENCE

Research Assistant, VISA Lab Jun 2025 - Present
Arizona State University, Remote

- Developed **FlowBench**, a workflow-based distributed benchmark by leveraging **Python**, **Docker**, **Kubernetes**, and **FaaS** principles to evaluate custom edge computing applications, providing a comprehensive report on 6+ metrics.
- Built and tested a video analytics workflow via **OpenCV** on a containerized microservices architecture with Kubernetes, processing 10,000+ frames per minute.

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

- Filtered and routed logs from OpenShift Kubernetes clusters to Splunk using Cribl Stream pipelines, reducing daily Splunk data ingestion by **40–50 GB** and improving **log search performance by 20%**
- Designed an automated pipeline using Ansible and Red Hat registry APIs to sync updated catalog images to Nexus Repository, reducing manual update time by **90%**

System Engineer - 1 May 2021 - Jul 2023
Cerner Healthcare (Oracle Health), Bangalore, India

- Migrated 80% of data from on-prem to **AWS**, enhancing data access flexibility, security, and cost-efficiency
- Participated in regular on-call rotations with cross-functional teams, leveraging **Zabbix** and **Splunk** for system health monitoring, quality assurance, and resolving production alerts, maintaining **99.99%** service reliability
- Troubleshot and performed root cause analysis **Jenkins** pipeline issues, 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, including Splunk and non-Splunk-based services, using **Chef**, while also tracking them with **JIRA**, accelerating delivery of new UI and backend features in a fast-paced production environment

ACADEMIC PROJECTS

End-to-End Deployment Automation Apr 2025

- Automated end-to-end AWS EC2 provisioning and cloud infrastructure management using **Terraform**, **Ansible**, **Jenkins**, and **GitHub Actions**, enabling infrastructure setup and hands-free web service deployments based on version control changes.
- Built and optimized CI/CD pipelines to dynamically retrieve instance IPs, configure secure SSH access, and deploy services, eliminating manual intervention and resolving IAM and resource issues in production-like environments

AWS-Based Face Recognition App 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