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, Cloud Computing, Computer Networks

PROFESSIONAL EXPERIENCE

Research Assistant, VISA Lab   Jun 2025 - Present
Arizona State University, Remote
- Developed FlowBench, a distributed benchmarking framework using **Python**, **Docker**, and **Kubernetes** to evaluate edge computing applications, enabling performance comparison across 6+ metrics, including latency, throughput, and resource utilization for **FaaS** workloads

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 (**$46K 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

DevOps 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%** while maintaining HIPAA compliance
- 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
- Troubleshot **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

End-to-end Deployment Automation   Apr 2025
- Reduced deployment time by 90% by building a fully automated **CI/CD** pipeline integrating Terraform (infrastructure provisioning), **Ansible** (configuration management), and **Jenkins/GitHub Actions**
- Implemented dynamic inventory management, automated SSH key rotation, and IAM role-based access for secure, zero-touch deployments to AWS EC2 instances

Kubernetes-based Data Processing Pipeline   Nov 2024
- Engineered a scalable data pipeline using **Kubernetes**, **Apache Kafka**, and **Neo4j** to process **100,000+** NYC taxi records in near-real-time, reducing spatial query time by **60%**

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

SKILLS

Languages & Scripting: Python, Go, Bash, Java, SQL
Cloud & Containers: AWS (EC2, Lambda, S3, ECS, EKS), 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