

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

Research Assistant, VISA Lab Arizona State University, Remote	Jun 2025 - Present
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- 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 Arch Mortgage Insurance, Greensboro, NC	Jun 2024 - Aug 2024
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- 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 Cerner Healthcare (Oracle Health), Bangalore, India	May 2021 - Jul 2023
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- 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
- 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

End-to-end Deployment Automation	Apr 2025
<ul style="list-style-type: none">Reduced deployment time by 90% by building a fully automated CI/CD pipeline integrating Terraform (infrastructure provisioning), Ansible (configuration management), and Jenkins/GitHub ActionsImplemented 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
<ul style="list-style-type: none">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