AMOGH JAGADISH TAMBAD

(480) 876-5096 • tambadamogh@gmail.com • linkedin.com/in/ajtambad • github.com/Ajtambad

EDUCATION

Master of Science, Computer Science May 2025
Arizona State University, Tempe, AZ 4.00 GPA
Relevant 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
Relevant coursework: Data Structure and Algorithms, Operating Systems

SKILLS

Languages and Databases: Python, C++, Bash, PowerShell SQL (Postgres, MySQL), NoSQL (MongoDB), Go, Scala, HTML, JavaScript, Java
Tools and Frameworks: AWS (EC2, ECR, S3, CloudFormation, Lambda, etc), Linux (RHEL, Ubuntu), Docker, Kubernetes, PostmanAPI, Nginx, Gunicorn, Flask, FastAPI, Node.js, Zookeeper, Splunk, Github Actions, Terraform, Ansible, Git (Version Control), Gitlab, Prometheus, Grafana, Jenkins, Cribl, Zabbix, Chef
Miscellaneous: Distributed Systems, RESTful APIs, Microservices Architecture, Object-Oriented Programming, Agile, SDLC, DevOps, Configuration Management, Infrastructure as code, Incident Management

PROFESSIONAL EXPERIENCE

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

- Developing **FlowBench**, a workflow-based distributed benchmark by leveraging **Python**, **Docker**, and edge computing principles to evaluate custom software performance metrics and optimize deployment algorithms
- Built and tested a video analytics workflow via **OpenCV** on a containerized microservices architecture with **Kubernetes**, implementing serverless functions for motion detection, frame extraction, face detection, and recognition

Site Reliability Engineer 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 storage usage 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, 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, leveraging **Zabbix** and **Splunk** for system health monitoring, troubleshooting server issues, and resolving production alerts within 15 minutes, maintaining **99.99%** service reliability
- Performed troubleshooting **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**, accelerating delivery of new UI and backend features in a fast-paced production environment

ACADEMIC PROJECTS

JobTrail - Go based job tracking Jun 2024 - Present

- Developed a Firefox extension and a **Go** backend (Gorilla Mux, database/sql) to capture and ingest job application data, storing entries in a structured **SQL database**
- Added signal-based graceful shutdown to export data to CSV and truncate the table automatically, saving 1–2 hours/week otherwise spent manually tracking applications

End-to-End Deployment Automation Mar 2025 - Apr 2025

- Automated end-to-end AWS EC2 provisioning using **Terraform**, **Ansible**, **Jenkins**, and **GitHub Actions**, enabling reproducible infrastructure setup and hands-free web service deployments
- 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 Feb 2024 - May 2024

- Developed and deployed a **Flask**-based image recognition app using **Gunicorn** on AWS EC2, enabling HTTP-based uploads and forwarding images to S3 via SQS for asynchronous processing

- 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