AMOGH JAGADISH TAMBAD

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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: Python, C++, Bash, SQL, YAML, Scala, HTML, JavaScript, Java
Technologies: AWS, GCP, Linux, PowerShell, PostmanAPI, Splunk, Cribl, Zabbix, Chef, Ansible, Terraform, Docker, Kubernetes, Helm, Jenkins, Github Actions, Nginx, Gunicorn
Frameworks: PyTorch, TensorFlow, scikit-learn, Flask, FastAPI, React, Node, Next.js
Data: PostgreSQL, MongoDB, Kafka, Spark, Hadoop, ZooKeeper, Prometheus, Grafana, JSON

PROFESSIONAL EXPERIENCE

IT-Infrastructure-Platform/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%**.
- Enhanced log clarity and parsing efficiency by leveraging Cribl Parser and Mask functions, resulting in a streamlined raw field and reducing parsing time to 2-3 seconds per log.
- 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.
- Troubleshot and resolved **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.

Kubernetes based Data Processing Pipeline Oct 2024 - Nov 2024

- Designed and deployed a scalable, near-real-time data pipeline on Kubernetes with Helm, enabling spatial analytics of NYC Taxi Rides for data-driven urban mobility insights.
- Leveraged Kafka, Kafka Connect, ZooKeeper, and Neo4j for real-time ingestion and graph processing (PageRank, BFS), uncovering location importance and optimizing resource allocation.

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.