Amogh Jagadish Tambad

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EDUCATION

Master of Science, Computer Science — May 2025
Arizona State University — GPA: 3.96/4
Relevant Coursework: Cloud Computing, Data Processing at Scale, Data Mining, Data Visualization

Bachelor of Technology (B.Tech), Computer Science and Engineering — May 2021
REVA University, Bangalore, India — GPA: 8.93/10
Relevant Coursework: Data Structures and Algorithms, Computer Architecture, Operating Systems.

SKILLS

- **Languages:** Python, C++, Bash, C, SQL, Scala, HTML, Java, JavaScript, Groovy.
- **Tools and Technologies:** AWS (EC2, ECR, SQS, S3, Lambda, SNS), Git, Jenkins, Kafka, Spark, Heroku, Azure, Splunk, Zabbix, Docker, Kubernetes, PostgreSQL, MongoDB, GitHub Actions, Cribl, OpenShift, Minikube.
- **Libraries and Frameworks:** PyTorch, TensorFlow, Flask, OpenCV, Pandas, Keras, scikit-learn, Nginx, React, Node,js.

EXPERIENCE

IT-Infrastructure-Platform/SRE Intern — Jun 2024 - Aug 2024
Arch Mortgage Insurance, Greensboro, North Carolina

- Filtered logs and events going from OpenShift Kubernetes Clusters to **Splunk** using **Cribl** stream pipelines, reducing Splunk storage utilization by **40-50 GB/day** with **20%** increase in search time.
- Improved readability of Splunk logs with Cribl's Parser and Mask functions, resulting in a concise, easily searchable '_raw' field, reducing parsing time to 2-3 seconds per log.
- Designed a groovy script to eliminate Jenkins GUI access from command line, preventing malicious attacks and improving security.

System Engineer - 1 — May 2021 - Jul 2023
Oracle Cerner, Bengaluru, India

- Engaged with the software development team on **Splunk** upgrades, troubleshooting, and deployments, ensuring up-to-date servers.
- Migrated 80% data from On-prem to **AWS**, making access to data more flexible, secure, and inexpensive.
- Integrated **Jenkins** and **GitHub** to maintain important documentation and test merge requests for semantic errors, reducing 1-2 hours per week of manual labour.
- Managed **CI/CD** pipelines to automate and oversee 300+ bi-weekly microservice deployments for web applications, enabling rapid delivery of new UI and backend features.
- Managed over 10 projects and 400+ tasks to completion through **JIRA**, resulting in smooth and error-free delivery.

PROJECTS

End-to-End Infrastructure Automation with Terraform, Ansible and Jenkins — Oct 2024 - Nov 2024

- Automated end-to-end infrastructure provisioning using Terraform, Jenkins, and Ansible to deploy and configure EC2 instances in AWS.
- Built a CI/CD pipeline that dynamically retrieved instance IPs, securely provisioned SSH access, and deployed web services without manual intervention.
- Resolved resource and permission issues in a production-like setup, optimizing Jenkins execution within constrained EC2 environments.

Kubernetes based Data Processing Pipeline — Oct 2024 - Nov 2024

- Built a scalable, near-real-time data pipeline for spatial analytics on NYC Taxi Rides.
- Ensured reliable and scalable real-time processing by deploying Kafka, Zookeeper, Kafka-Connect, and Neo4j on Kubernetes.
- Ingested document streams and ran PageRank and BFS on Neo4j to evaluate location importance.

AWS Based Live Face Recognition App — Feb 2024 - May 2024

- Built a Flask-based web app with Gunicorn for image recognition from uploaded files..
- Deployed web tier on AWS EC2 to handle image uploads via HTTP POST and forward them to S3 using SQS.
- Designed an auto-scaling app tier with up to 20 EC2 instances processing images based on SQS queue depth.

LaTeX to PDF converter using Github Actions — Oct 2024 - Nov 2024

- Designed a GitHub Actions workflow to auto-generate PDFs from .tex files on push.
- Added regex-based shell scripting to include the current date in PDF commits for version tracking.
- Hosted resumes on GitHub Pages for easy access and constant availability.