

# Amogh Jagadish Tambad

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## EDUCATION

**Master of Science**, Computer Science

Arizona State University

May 2025

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

REVA University, Bangalore, India

May 2021

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.
- **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**, 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.
- Worked with **OpenShift** to manage container-based applications in the **Kubernetes** environment.

**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.
- Performed **CI/CD** and 300+ bi-weekly micro-service **deployments** for web applications to deploy new UI and backend features.
- Managed and tracked over 10 projects and 400+ tasks to completion through **JIRA**, resulting in smooth and error-free delivery.

## PROJECTS

**Kubernetes based Data Processing Pipeline**

Oct 2024 - Nov 2024

*Arizona State University, Tempe, Arizona*

- Built a highly scalable and available data processing pipeline that allows near-real-time processing and **analytics** of document stream data.
- Managed **Kubernetes** deployments of **Kafka**, **Zookeeper**, **Kafka-Connect**, and **Neo4j** components.
- Tested the pipeline using a document stream as input and performed **PageRank** and **Breadth-First Search(BFS)** algorithms on the resulting neo4j graph database.

**AWS Based Live Face Recognition App**

Feb 2024 - May 2024

*Arizona State University, Tempe, Arizona*

- Built a web application using **Flask API** and **Gunicorn** server that takes image files as input, performs image recognition, and outputs predictions.
- Created web tier using an AWS **EC2** instance that receives images via **HTTP POST** requests and forwards them to AWS **SQS**.
- Designed an **auto-scaling** app tier that spawns upto **20** EC2 instances based on number of requests in SQS with each of the instances performing image recognition.
- Stored the predictions in **S3** buckets and sent them back through the web-tier, keeping the overall latency at under **3 minutes** for **50** concurrent requests.

**Novel Object Detection Using Reasoning by Elimination**

Aug 2023 - Dec 2023

*Arizona State University, Tempe, Arizona*

- Engineered a system with **PyTorch** to detect 'novel' objects not included in training data.
- Leveraged pre-trained **ResNet-18** and **BERT Tokenizer** models to extract features.
- Computed Cosine similarity and trained the agent with **reinforcement learning** to eliminate seen objects.
- Generated an automobile-relevant, real-world dataset of 1260 images using **Stable Diffusion**.