

# AMOGH JAGADISH TAMBAD

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## EDUCATION

<b>Master of Science, Computer Science</b> Arizona State University, Tempe, AZ Coursework: Cloud Computing, Data Processing at Scale, Data Mining, Software Security	May 2025 4.00 GPA
<b>Bachelor of Technology, Computer Science</b> REVA University, Bangalore, KA Coursework: Data Structure and Algorithms, Operating Systems, Cloud Computing, Computer Networks	May 2021 3.77 GPA

## SKILLS

<b>Languages:</b> Python, Scala, SQL, Go, Java, JavaScript/TypeScript
<b>Big Data &amp; Processing:</b> Apache Spark, Apache Kafka, Apache Airflow, Pandas, NumPy, PySpark
<b>Database Systems:</b> SQL(MySQL, PostgreSQL), NoSQL (MongoDB)
<b>Tools:</b> Linux, Unix, Git (Version Control), Jenkins, ArgoCD, Redis, Prometheus, Cursor, CoPilot, Claude Code
<b>Cloud Technologies:</b> Docker, Kubernetes, Terraform, Helm, AWS(EC2, S3 Lambda, ECS, CloudFormation, EKS), GCP
<b>Miscellaneous:</b> Distributed Systems, RESTful APIs, Microservices, Object-Oriented Programming, Agile, Data Structures

## PROFESSIONAL EXPERIENCE

<b>Research Assistant, VISA Lab</b> Arizona State University, Remote	Jun 2025 - Present
<ul style="list-style-type: none"><li>Developed <b>FlowBench</b>, a workflow-based distributed benchmark by leveraging <b>Python</b>, <b>Docker</b>, <b>Kubernetes</b>, and FaaS principles to evaluate custom edge computing applications, providing a comprehensive report on 6+ metrics.</li><li>Built and tested a video analytics workflow via <b>OpenCV</b> on a containerized microservices architecture with Kubernetes, processing 10,000+ frames per minute.</li></ul>	
<b>Software Engineer Intern</b> Arch Mortgage Insurance, Greensboro, NC	Jun 2024 - Aug 2024
<ul style="list-style-type: none"><li>Architected and deployed a scalable data processing solution using <b>Cribl Stream</b> and <b>JavaScript</b>, creating 10+ conditional pipelines that processed 500K+ daily log events with automated filtering, transformation, and routing to Splunk</li><li>Reduced data ingestion costs by 35% through intelligent log filtering and aggregation, implementing custom business logic to eliminate redundant data.</li><li>Automated container registry synchronization across enterprise infrastructure using Ansible and Red Hat APIs, eliminating 90% of manual processes</li></ul>	
<b>Software Engineer</b> Cerner Healthcare (Oracle Cerner), Bangalore, KA	May 2021 - Jul 2023
<ul style="list-style-type: none"><li>Led cloud data migration initiative, designing and implementing Python-based <b>ETL</b> pipelines to migrate <b>15TB+</b> of enterprise healthcare data from on-premises Oracle databases to AWS, achieving 80% migration completion with zero data loss</li><li>Automated the monitoring and alerting systems with <b>Zabbix</b> and <b>Splunk</b> APIs, developing custom dashboards and incident response automation that sped production resolution by 30%</li><li>Implemented <b>RBAC</b> with <b>AWS IAM</b> and Zabbix User roles, enhancing security and reducing login errors by 60%, while streamlining user access management across the system.</li><li>Deployed <b>300+</b> bi-weekly microservice releases, tracked via <b>JIRA</b>, through <b>Chef</b> configuration management and custom deployment scripts, accelerating delivery of new UI and backend features</li></ul>	

## PROJECTS

<b>JobTrail - Go-based Job Tracker</b>	May 2025
<ul style="list-style-type: none"><li>Developed a full-stack job tracking application using <b>Go</b> backend (Gorilla Mux), <b>SQLite</b> database, and <b>JavaScript</b> browser extension, reducing manual job application logging time by 80% through automated data capture from 15+ major job boards</li><li>Built <b>RESTful API</b> with sub-200ms response times supporting <b>500+</b> job records with CRUD operations and real-time filtering, via responsive web interface using <b>Bootstrap</b> and <b>vanilla</b> JavaScript</li></ul>	
<b>RAG Implementation for arXiv Papers</b>	Nov 2024
<ul style="list-style-type: none"><li>Devised a multimodal pipeline using <b>Python</b> to extract and vectorize content from <b>2000+</b> arXiv papers, implementing <b>CLIP</b> and text embedding models, <b>DynamoDB</b> indexing and vector database storage</li><li>Implemented a similarity search and summarization pipeline with DynamoDB and GPT-4o mini to deliver concise, contextually relevant responses to user queries with an average response time of under <b>2 seconds</b>.</li></ul>	