

AMOGH JAGADISH TAMBAD

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EDUCATION

Master of Science, Computer Science May 2025
Arizona State University, Tempe, AZ 4.00 GPA

Bachelor of Technology, Computer Science May 2021
REVA University, Bangalore, KA 3.77 GPA

CERTIFICATIONS

- AWS Certified Solutions Architect – Associate ([SAA-C03](#))

PROFESSIONAL EXPERIENCE

Software Engineer - AWS Lead Dec 2025 - Present
DriverAI LLC, Remote

- Enforced Infrastructure-as-Code (**IaC**) practices by engineering **Terraform** automation pipelines managing 8–10 AWS services across staging and production environments, implementing **RBAC**, security controls, and architecture standards to ensure scalable and secure foundations
- Designed and implemented a gamification system with 30+ endpoints backed by a **MySQL** RDS database, introducing reward-based mechanics to drive user engagement and structured data collection for an early-stage product

Research Assistant, VISA Lab Jun 2025 - December 2025
Arizona State University, Remote

- Developed **FlowBench**, a workflow-based distributed benchmark by leveraging **Python**, **Docker**, **Kubernetes**, and **FaaS** principles to evaluate custom edge computing applications, providing a comprehensive report on 6+ metrics.

Software Engineer (Infrastructure & Reliability) Intern Jun 2024 - Aug 2024
Arch Mortgage Insurance, Greensboro, NC

- Architected a **JavaScript-based** data processing pipeline with **Cribl Stream**, processing 80GB+ daily logs through 10+ conditional routing rules, reducing Splunk ingestion costs by **\$32000** annually

Software Engineer (Systems) May 2021 - Jul 2023
Cerner Healthcare (Oracle Cerner), Bangalore, KA

- Built cloud-native data transformation pipelines in **Python** to migrate **80%** of enterprise data (500+ TB) from on-premise infrastructure to AWS, designing workflows that ensured zero data loss and **99.9%** uptime
- Engineered and troubleshooted backend workflows and data interactions within **Cerner Millennium**, leveraging SQL-like querying (**CCL**) and database-level debugging to resolve production issues
- Bridged technical and customer-facing responsibilities by triaging **support tickets** and directly engaging **customers** and **field engineers** to drive resolution.
- Collaborated with cross-functional teams to deliver **300+** microservice releases, implementing feature flags, **A/B testing** frameworks, and rollback mechanisms that improved deployment safety and enabled rapid iteration

PROJECTS

TalkDoc - AI-based Document Filler | **Python**, **FastAPI**, **React**, **OpenAI GPT-4** | [GitHub](#) Nov 2025

- Built an AI-powered web application using **FastAPI** and **React** that automates document form completion through conversational interactions, leveraging **OpenAI GPT-4** for natural language understanding and intelligent question generation
- Implemented dynamic conversation flows and document generation, reducing form completion time by **40%** while achieving over **90%** accuracy in mapping conversational responses to structured document fields

RAG Implementation for arXiv Papers | **Python**, **DynamoDB**, **CLIP** | [Slides](#) Nov 2024

- Built a multimodal pipeline in **Python** to extract and vectorize content from **2000+** arXiv papers using **CLIP** and text embeddings, enabling **DynamoDB**-backed similarity search and **GPT-4o mini** summarization with under **2-second** response times.

SKILLS

Languages: Python, Go, Java, C++, JavaScript, SQL

AI & Developer Tools: Claude Code, Codex, Copilot, Replit

Web & APIs: Flask, FastAPI, Spring Boot, Node.js, React.js, REST/GraphQL APIs

Databases: PostgreSQL, MySQL, MongoDB, Redis, DynamoDB, Vector DBs (FAISS, ChromaDB)

DevOps: AWS, Docker, Kubernetes, Terraform, Helm, Jenkins, ArgoCD, Kafka, Linux/Unix, Ansible, Splunk, Prometheus, Cribl

AI/ML: PyTorch, TensorFlow, LangChain, LangGraph, RAG