

Akshanth Mamidala

+13149439240 | akshanth.mamidala3@gmail.com | <https://www.linkedin.com/in/akshanthm> | github.com/itsthekidash3 | Austin,Tx

Summary

Passionate about contributing to enterprise-scale software solutions by bridging technical expertise with business value.

Education

Belhaven University

Master of Science (MS), Information Technology Management

Jackson, MS

August 2025

Coursework: Project Management, Leading Productive Teams, Disaster Recovery, Financial Analysis.

GPA: 3.3 /4

Missouri University of Science and Technology

Master of Science (MS), Computer Science

Rolla, MO

May 2024

Coursework: Database Systems, Machine Learning, Cloud and Big Data Management.

GPA: 3.4/4

Keshav Memorial Institute of Technology

Bachelor of Technology (B.Tech), Computer Science

Hyderabad, India

May 2022

Coursework: Design and Analysis of Algorithms, Data Structures, Java Programming, Web Technologies, Operating Systems.

GPA: 3.2/4

Work Experience

SYFT

Dallas, Tx

AI Software Engineer intern

Oct 2025 – present

- Built interactive UI components for the beta Chrome extension and web app using **React**, **Next.js**, and **TypeScript**, improving load times and overall responsiveness during user testing.
- Refined core user flows and onboarding screens, helping the team reduce friction points identified in **early beta feedback**.
- **Integrated backend APIs** and ML-powered endpoints into the frontend to deliver real-time product insights inside the extension.
- Contributed to multiple production-ready builds on **Vercel** and **AWS**, supporting faster release cycles for internal testers.
- Collaborated through **Git/GitHub** with rapid feature branches and code reviews, improving code quality across the frontend.
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Dallas AI

Dallas, Tx

Full-Stack Developer

May 2025 – Aug 2025

- Implemented Retrieval-Augmented Generation (**RAG**) workflows using **Sentence Transformers**, **PyPDF2**, and **ChromaDB**, enabling users to search political platforms and bills with over **90%** retrieval precision.
- Built and integrated the **React.js** front-end with AI agents and multi-LLM pipelines (**Ollama**) via **FastAPI**, improving bill prediction accuracy by **83%**.
- Designed responsive **React.js** UI components to display semantic search results from **ChromaDB** and AI-generated summaries in real time, reducing user query-to-response time by **47%**.
- Gained hands-on experience in **LLM orchestration, embeddings, and Docker-based deployment**, contributing to a scalable, production-ready solution.

Missouri S&T

Rolla, MO.

System Support Analyst

May 2023 - Apr 2024

- Analysed and documented current IT processes and technologies, identifying areas for improvement and **implementing solutions** that increased operational efficiency by 25%.
- **Imaged, configured, installed, and troubleshooted** Windows, macOS, and Linux workstations, hardware drivers and software applications, ensuring systems were secure, up to date, and functioning optimally.
- Provided **cloud backup** and restoration services for staff files, leveraging the university's cloud architecture for efficient data management and security.
- Managed incoming requests via **Help Desk systems (Cherwell)**, documenting solutions, escalating complex issues, and ensuring timely resolution of technical problems.
- Used remote access software to diagnose and resolve issues efficiently, minimizing downtime for **Customers**.

Projects

Workgram

Tech Stack: React.js | Node.js | MongoDB | AWS.

- Developed a scalable web app linking students with niche local workshops, growing to over 1,000+ users.
- Integrated AWS services to manage cloud hosting and media content while maintaining secure data operations.
- Optimized backend queries and React rendering performance, reducing load time by 30%

Twitter Data Analysis

Tech Stack: Java | Hadoop | MapReduce | HBase

- Designed a scalable data processing pipeline to analyze user trends and tweet patterns from the COVID-19 Tweets dataset.
- Leveraged MapReduce and HBase to identify user creation trends, screen name patterns, and hashtag-specific tweet insights.
- Enabled efficient distributed querying, optimizing analysis time by over 40% for large-scale datasets.

Trading Titans

Tech Stack: Python | SQLite | Streamlit | Gemini API

- Built a gamified stock market simulation allowing users to react to dynamic news and market events with virtual investments.
- Engineered full-stack architecture with responsive UI in Streamlit, ensuring real-time updates and data integrity.
- Completed and deployed the MVP within a 36-hour sprint, demonstrating rapid prototyping and effective time-bound problem-solving.

Certifications

AWS certified Solutions Architect – Associate

Excepted Dec 2025

AWS certified cloud practitioner

Issued May 2025

Certified Dell Technician

Issued Dec 2023

Skills

Languages: Python | JavaScript | Java | SQL | C#

Version Control: GitHub | VS code

Databases: SQL Server | PostgreSQL | MongoDB | KDB

Front-End Technologies: React.js | HTML | CSS

Back-End Technologies: Node.js | Flask

ML platforms: TensorFlow | Pytorch

Operating Systems: Windows | Linux

Cloud Platforms: AWS (EC2, Lambda)

Soft Skills: Communication | Problem-Solving | Cross Func