LAXMAN KATNENI

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EDUCATION:

The Ohio State University, College of Engineering   **Columbus, OH**
Bachelor of Science in Computer Science and Engineering   *May 2025*
- **Relevant Coursework:** Object-Oriented Programming, Algorithms, Database Systems, Data Structures, Artificial Intelligence, Operating Systems, Computer Networking, Principles of Programming Languages, Software Components, Software Requirements Analysis, Linear Algebra

WORK EXPERIENCE:

Software Engineer | *DigiClips*   *Jan 2025-May 2025*
SiriusXM Digital Monitoring System
- Engineered a **Python**-based system to automatically retrieve, record, and transcribe live **SiriusXM** broadcasts, reducing manual monitoring time by **90%**
- Built a robust web scraper using **Selenium-Wire** to simulate authenticated sessions, enabling multi-channel recording with up to **20** successful concurrent runs during testing
- Integrated **Chrome Audio Capture** and **FFmpeg** to automate SiriusXM compliant 10-minute audio recordings
- Refactored and modularized legacy **C/C++** codebase of over **3000 lines** from the TV backend to build a scalable radio file deletion system, ensuring compatibility with existing file structures and optimizing memory management

IT Student Assistant | *The Ohio State University, Fisher College of Business*   *Jan 2024-May 2025*
- Assisted in resolving over **300+ classroom and software support requests**, ensuring smooth daily operations for students and faculty
- Trained new student assistants on troubleshooting procedures and professional **customer service**

PROJECTS:

ChatOn – Real-Time Full Stack Chat Application   *Mar 2025*
- Developed a responsive real-time chat application using the **MERN stack (MongoDB, Express, React, Node.js)** with **Socket.io** to enable instant message delivery without page reloads
- Implemented user authentication, online/offline status indicators, and dynamic media sharing with a clean, modern UI design
- Designed RESTful APIs for message storage, chatroom management, and user search, while maintaining persistent chat history in **MongoDB** and deploying the app with Render and Vercel

Launch Path – AI-Powered Job Application Tracker   *Apr 2025*
- Built and deployed a full-stack AI SaaS application using the **PERN stack (PostgreSQL, Express, React, Node.js)** with user authentication, subscription billing, and dynamic UI components
- Integrated **OpenAI API** to generate resume recommendations and job insights, enabling users to align applications with role descriptions through AI-powered feedback
- Designed and implemented job tracking features with searchable filters, application stage updates, and **Stripe-based subscription billing**, deployed on **Vercel** with a responsive modern UI

FitGPT – AI Fitness ChatBot   *Feb 2025*
- Used **LangChain** and **OpenAI API** to build a chatbot that generates personalized fitness plans using **Retrieval-Augmented Generation (RAG)**
- Developed backend using **Flask**, built front end with **React**, deployed on Vercel, and containerized backend with **AWS Lambda + API Gateway** for serverless execution

InsightIQ – Data Analytics & Visualization Platform   *Apr 2025*
- Built an interactive dashboard using **React**, **Node.js**, and **PostgreSQL**, enabling real-time data querying, aggregation, and visualization with **Chart.js** and **DataTables**
- Integrated **API-based data ingestion** and implemented custom filters, export features, and user authentication to support role-based insights across metrics

TECHNICAL SKILLS:

- **Certification:** AWS Certified Cloud Practitioner
- **Programming:** Python, Java, JavaScript, TypeScript, SQL, C, C++, HTML, CSS, Ruby
- **Tools & Frameworks:** React, Node.js, Express, Flask, Angular, Firebase, MongoDB, PostgreSQL, Git
- **Other Technologies:** Selenium, LangChain, Socket.io, Chart.js, scikit-learn, TensorFlow, PyTorch