

EDUCATION

University of Texas at Austin

Bachelor of Computer Science

Graduating: 2027

Relevant Coursework: Data Structures, Discrete Math, Computer Architecture, Linear Algebra, Statistics and Probability, Multivariable calculus, Differential Equations

EXPERIENCE

Efficienergi Consulting

Summer Intern

Mumbai, India

2023.06-2023.09

- Developed an AI program to consume and process the Company's training manuals, and respond to employee queries after finding the correct response
- Implemented **Python**, **HTML/CSS**, and **Machine Learning** Algorithms to complete this design
- Delivered a final presentation to my employers and coworkers detailing the functionality of my program

University of Texas at Dallas

Summer Internship

Richardson, Texas

2023.06-2023.08

- Under the guidance of Professor John Cole, I developed several productivity enhancing apps in Android Studio.
- Created a task manager app using data structures like linked lists to manage a variety of different apps dynamically.
- Programmed primarily in **java** and **python**

Suits

Technical Intern

Austin, Texas

2024.08-Present

- Developed and designed the User Interface in **React Native**
- Developed a **RAG algorithm** leveraging **OpenAI's GPT models** for enhanced contextual data retrieval
- Migrated existing manual data entry workflows to a fully integrated **Firestore Cloud Firestore** solution, implementing structured data models, real-time synchronization, and indexed queries for efficient, scalable information management.

Texas Convergent

Software Engineer

Austin, Texas

2024.01-Present

- Worked in a student-led organization dedicated to building real-world software solutions for nonprofits and startups.
- Contributed to the development of a full-stack application that now supports over **10,000+ active users**, delivering critical features to benefit a local startup.
- Developed unique machine learning algorithms using **logistic regression**, **random forests**, and **gradient boosting** to accurately predict user payment behavior

PROJECTS

- AI ChatBot:** Developed an innovative offline AI program to effectively process the company's extensive training manuals and provide accurate responses to employee queries. Key features:
 - Utilized **Langchain** to split and process documents.
 - Generated vector embeddings with **HuggingFace**.
 - Implemented **FAISS** for efficient similarity searches.
 - Integrated **GPT4All** for local question-answering.GitHub: <https://github.com/SaahilM06/GPT4All>
- Volatility Predictor:** Designed an NLP-based system to analyze news headlines and predict changes in volatility.
 - Collected and processed financial news headlines using **Python** and **NLTK**, extracting sentiment and key phrases as features.
 - Utilized **Google XLNet** for contextual embeddings, improving the model's ability to predict volatility shifts based on nuanced headline sentiment and context.
- Debate Bot:** Built a real-time AI-powered debate bot that listens to user arguments and provides structured counterarguments.
 - Integrated **Whisper** for voice recognition and transcription.
 - Used **machine learning** models and logic pipelines to classify arguments and generate live rebuttals in a debate-style format.
 - Designed for responsiveness and coherence, with an emphasis on real-time conversational flow.

LEADERSHIP AND COMMUNITY INVOLVEMENT

Boy Scouts of America

Dallas, Texas

- Attended 50+ camp outs, served 5 leadership roles, and completed 30 different merit badges
- Senior Patrol Leader- Under this role I was responsible for the safety of 90+ scouts. Had to organize camp activities, locations, and dates
- Order of the Arrow Honor Society- Prestigious Honor Society under the overall organization of Boy Scouts as a whole. Only those scouts to live up to the highest of their merit everyday are selected for this honor society

SKILLS

Languages and Technical Skills

Java-Proficient, HTML, JavaScript, Python, React Native, Microsoft Office, Mathematics, SQL