

Pranav Uttarkar

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EDUCATION

Texas A&M University

B.S in Computer Science, Minors in Business & Mathematics

Craig And Galen Brown Engineering Honors

College Station, TX

May 2027

Computer Science GPA: 4.00

EXPERIENCE

AI Development Intern

Daikin North America

May 2025 – Aug 2025

Houston, TX

- Designed and built an enterprise-scale **AI Agent Platform** using **Python, MCP**, and **LangGraph**, automating repetitive workflows and **boosting efficiency for 10,000+ employees**.
- Developed **12+** custom AI tools integrating internal SOAP & REST **APIs** to automate HVAC configuration generation, system comparisons, and **RAG knowledge retrieval** based on natural language queries.
- Significantly **reduced LLM request latency** and **increased throughput** while preserving workflow fidelity.
- Collaborated with Product Managers and VPs to align platform capabilities with business needs, gathering feedback through live demos/discussions, iterating features to address key employee pain points.
- Deployed on **Azure cloud** services using DevOps and **Docker**, and integrated with the company's GenAI web platform (**TypeScript, React, Redux, CosmosDB**) for chat history and context management.

Machine Learning Researcher

Texas A&M University

Jan 2025 - Present

College Station, TX

- Engineered a **masked contrastive deep learning transformer model** for segment-level musical version matching, improving efficiency/robustness of song recognition with **Scikit-learn, TensorFlow & PyTorch**.
- Built a large-scale audio embedding processing pipeline that ran 150% faster, enabling more efficient dataset experimentation.
- Achieved a **15% improvement in segment-level retrieval accuracy** over state-of-the-art CLEWS benchmarks with faster training times, with findings targeted for publication at **ICASSP 2026**.

Founder & Full-Stack Software Engineer

MindWeb.systems

May 2025 – Sep 2025

- Developed *MindWeb*, a gamified productivity web-app built with **React + TypeScript**, backed by **Supabase (PostgreSQL, Edge Functions, OAuth, Storage)** with features like friend streaks, **notifications**, **large data tracking**, and **caching**.
- Led early **beta launch and iterative marketing campaigns** across productivity communities, onboarding **~100** early testing users, to find product-market fit, and enhance user experience through iterative feedback.

PROJECTS

Tamu-ProfSort | Puppeteer, Javascript, Electron

Jan 2025

- Developed a windows-app to track Tamu professor grading averages used actively by **400+ students**.

A&M Studys | React, Next.js, TypeScript

Sep 2024 – Dec 2024

- Led a team of 7** students to develop a website to facilitate peer teaching and Q&A for Texas A&M courses.

Impossible Parkour

Dec 2023

- Developed a TikTok **game filter** amassing **35.5M** views and **70,000+ user generated videos** with logic based nodes

TECHNICAL SKILLS

Languages: C++,Python, Typescript/Javascript, Java, Haskell, R, PostgreSQL, NoSQL

Frameworks & Libraries: React, Fast-API, Pandas, NumPy, TensorFlow, PyTorch, Scikit Learn, LangChain/Graph,

Tools & Databases: Git, CI/CD, Docker, MCP, Azure Cloud, CosmosDB, SupaBase, FireBase, REST APIs, JSON

Interests!: Video Editing, Rock-Climbing, Geography, Running