

Pranav Uttarkar

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EDUCATION

Texas A&M University | College Station, TX

Bachelor of Science in Computer Science

Expected Graduation:

May 2027

- Craig And Galen Brown Engineering Honors

RELEVANT COURSEWORK: C++, Computer Organization, Data Structures & Algorithms,

WORK EXPERIENCES

AI Development Intern | Houston, TX

May 2025 – August 2025

Daikin North America

- Designed and deployed an internal **AI Agent Platform** using **Python**, **MCP**, and **LangChain/LangGraph**, to automate workflows across Sales & Marketing functions, reducing repetitive tasks and increasing efficiency for **10,000+** employees.
- Developed **12+** tools for the agent & integrated internal company APIs to perform tasks like dynamically generating HVAC system configurations, comparisons, dealer locations, and **RAG knowledge retrieval** based on natural language inputs.
- Collaborated with Product Managers, VPs, and cross-functional leads to ensure the platform **aligned with employee workflows** and **solved real productivity pain points**; gathered feedback through demos/discussions, iterated based on input.
- Used **Azure DevOps** to deploy and integrate with company GenAI web platform with **TypeScript**, **React**, **Redux**, and **CosmosDB** for chat history and context management.

Founder & Full-Stack Developer

May 2025 – Present

MindWeb.systems

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

Undergraduate Researcher | College Station, TX

Texas A&M University | Sketch Recognition Lab

January 2025 – Present

- Adapting, benchmarking and training a visual transformer music recognition model for efficient multi-class environmental sound classification using **TensorFlow & PyTorch**, focusing on domain transfer and model generalization.
- **Assembling large training datasets, fine-tuning model architecture**, modifying output layers and training objectives (e.g., BCE loss) for environmental tagging; ; targeting publication at ICASSP or INTERSPEECH.

PROJECTS

Tamu-ProfSort (bit.ly/tamuprofsort)

- Developed a desktop app used actively by **400+** students to track professor grading styles/averages with **Javascript & Puppeteer**

A&M Studys

September 2024 – December 2024

- **Led a team of 7** fellow students to develop a web app to facilitate peer teaching and Q&A for Texas A&M courses built with **Firebase & React**.

Impossible Parkour

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

LANGUAGES, TOOLS, FRAMEWORKS

- Python, C++, Typescript, React, PostgreSQL, NoSQL, Github, Fast-API, MCP, LangChain/Graph, TensorFlow, Scikit Learn, pandas, numpy, Azure DevOps, CosmosDB, Supabase, FireBase.