

Aaditya Panchal

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EDUCATION

William B. Travis High School

High School Diploma

Houston, Texas

Expected Graduation, May 2027

- o GPA: 4.22/5
- o **Advanced Coursework:** AP Computer Science Principles, AP Statistics, AP Pre-Calculus, AP World History, AP Human Geography

EXPERIENCE

UT Austin

Research Assistant

Remote

July '2024 - Present

- Developing Actionable Machine Learning (AML) Methods for Diagnosing, Monitoring and Treating Parkinson's Disease. **Researching the causal analysis of Parkinson's disease** while working with a **recurrent neural network platform** called GLACIAL. Assisting Dr. Chandrajit Bajaj in validating and proving machine learning models dedicated to diagnose early. Working with technologies such as **Python, Anaconda, Tensorflow, Matplotlib**, etc.

StatOracle

Software Engineer

Remote

May '24 - Present

- Collaborate with cross-functional teams to architect an **affordable, user-friendly analytics platform empowering youth sports teams with actionable data insights**. Spearhead end-to-end development of a full-stack web application, designing scalable client management dashboards and real-time analytics tools to optimize team performance tracking. Build responsive, dynamic interfaces **using TypeScript, Next.js, and Tailwind CSS**, emphasizing accessibility and mobile-first design principles to ensure seamless usability for coaches and athletes across devices.

CortexPD

Software Engineer

Remote

June '24 - Nov '24

- Engineered an iOS app using **React, Expo SDK, and Tailwind CSS** to predict Parkinson's Disease motor fluctuations. Collaborated with **25+ global volunteers across 5 countries** to design the nonprofit's website in Figma and React, enhancing donor engagement through responsive UI/UX. Contributed to brand identity by co-developing the CortexPD logo and integrated real-time data visualization tools to help caregivers respond faster to critical patient mobility trends. Volunteered with a mission-driven team to democratize healthcare technology for underserved communities.

ACTIVITIES AND LEADERSHIP

Research Made Accessible

Co-CEO and Co-founder

Hou, TX

June 2023 – Present

- Co-created an Research nonprofit, aiming to make research accessible for all. Managed, and created the organization website, **garnered in 1500+ applicants, along with 100+ acceptances. Created a 200+ professor network, along with 10,000+ followers on Instagram**. Additionally **impacted over 2,000 people through zoom webinars, and mentorship**. Directed the creation of a mentor-student matching system specifically designed to address the shortage of mentors and facilitate meaningful academic partnerships in order to make disadvantaged students more involved in academia.

Angels Among Us

Director of Development

Remote

August 2024 – Present

- Directing the growth of a nonprofit dedicated to raising money for cancer patients. Reaching over **75,000+ people, raising upwards of 25,000\$, while spanning over 8 states, and opening up 30 chapters**. Developed and maintained the **organization website driving over people to support the organization**. Collaborated with and donated to notable organizations such as NPCF, NCFR, and NBCF.

SKILLS

Programming: , Python, JavaScript, HTML/CSS, React.js, TypeScript

Tools: Git, Visual Studio Code, Bootstrap, PyCharm, TailwindCSS