

Manas Jain

Plano, Texas | (469) 929-5542 | manas.jain@utexas.edu | [linkedin.com/in/manasjain1](https://www.linkedin.com/in/manasjain1) | manasjain.net

EDUCATION

University of Texas at Austin

Austin, TX

Bachelor of Science in Computer Science and Economics, Minor in Finance

TECHNICAL SKILLS

Languages: Python, Java, C/C++, SQL, JavaScript, TypeScript, R, HTML/CSS, Swift, Prolog, Liquid

Frameworks: React, Node.js, React-Native, Flask, Firebase, MongoDB, Bootstrap

Developer Tools: AWS, Google Cloud, Docker, Git, Power BI, Expo, Jira, Microsoft Office, Tableau, MATLAB, Agile

Libraries: OpenCV, TensorFlow, Pandas, NumPy, Matplotlib, PyTorch, Keras

EXPERIENCE

Geometry of Space Lab, Department of Computer Science

January 2025 – Present

Undergraduate Researcher

Austin, TX

- Writing Python scripts to analyze galaxy data from SDSS for velocity dispersion and mass-to-light ratios
- Applying computational geometry to identify galaxy clusters and create 3D cosmic structure visualizations
- Using Python libraries (NumPy, Pandas, SciPy) for data processing and visualization in astronomical research

Cacao.Tax

August 2024 – December 2024

Software Engineer Intern

Austin, TX

- Designed and implemented a frontend scanner using React Native and OCR technologies to streamline data input
- Integrated Shopify with Liquid templates to enhance user experience and boost processing efficiency by 2x
- Developed and maintained a scalable backend on AWS, improving the store's performance and reliability by 30%

University Securities Investment Team (USIT)

September 2024 – Present

Technology Chair

Austin, TX

- Developed and managing portal with ReactJS, HTML, and CSS, boosting engagement by 25% for 200+ members
- Implementing updates to improve site performance and usability, ensuring seamless experiences during meetings
- Designing and deploying competition websites using AWS and Docker, scaling to support 1,000+ users

Dell Technologies

September 2024 – Present

Developmental Intern

Round Rock, TX

- Selected as 1/40 students for the inaugural U.S. cohort of the Dell STEM Aspire Program
- Collaborating with a mentor to design real-world solutions, focusing on cross-functional impact and user needs
- Engaging in workshops on product development, stakeholder communication, and career readiness

PROJECTS

Jump Finance | React, Python

December 2024 – January 2025

- Deployed a professor dashboard for a tuition program connecting underprivileged students to fair-rate loans
- Prioritized and delivered real-time access to student metrics, streamlining course management and engagement

ALSpeak | TypeScript, Python, Flask, MongoDB, Agile

September 2024 – December 2024

- Built a full-stack app enabling ALS patients to communicate 30% faster with GPT-API powered predictive text
- Designed tailored personas for specific contexts, optimizing processing by 40% to enhance user experience
- Managed development sprints and feature prioritization using Agile tools, ensuring timely delivery of features

Huffman Coding | Java

November 2024

- Built a Huffman encoding tool to compress and decompress files, achieving up to 82% compression efficiency
- Utilized custom priority queues and trees to optimize encoding accuracy and streamline file reconstruction

Stock Prediction Tool | Python, LSTM, Linear Regression, TensorFlow

August 2022 – June 2023

- Integrated Yahoo Finance API, leveraging machine learning and mathematical algorithms to yield returns of 15%
- Automated daily email alerts for stock insights, saving users 10+ hours per week on market analysis