

Pranav Dodda

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EDUCATION

The University of Texas at Austin, Austin, TX

Expected Graduation: December 2026

Bachelor of Science; Computer Science + Business

Relevant Coursework: Data Structures, Object-Oriented Programming, Computer Architecture, Discrete Mathematics, Linear Algebra, Multivariable Calculus, Probability and Statistics

EXPERIENCE

Computer Science Researcher, Austin, Texas

January 2025 - March 2025

University of Texas at Austin - Directed Readers

- Led independent research, developing new techniques and models that were integrated into ongoing projects
- Analyzed large datasets, applying machine learning and statistical methods to extract insights, improving outcomes by 20%
- Collaborated with cross-disciplinary teams to synthesize research and contribute to real-world applications, optimizing algorithms for a 15% efficiency boost
- Presented findings in seminars and meetings, contributing to peer-reviewed publications

Software Engineering Intern, Frisco, Texas

October 2024 - December 2024

Turbolearn AI

- Developed AI-driven educational tools, improving user efficiency by 30% with ML-powered recommendations
- Implemented and tested RESTful APIs to connect various microservices, connecting backend and frontend systems
- Designed and maintained scalable backend services using Python and Flask, cutting response times by 25%
- Implemented natural language processing-based user personalization, increasing engagement rates by 25% and reducing bounce rates by 15%

Software Engineering Intern, Frisco, Texas

June 2024 - August 2024

Glitterati

- Developed an AI Chatbot using Python and natural language processing (NLP) to enhance customer experience, improving response time by 80% and reducing customer service workload by 25%
- Designed and implemented a responsive website for the company, integrating front-end technologies such as HTML, CSS, and JavaScript to increase user engagement by 40%
- Integrated the chatbot with backend systems and APIs to automate 60% of customer inquiries, improving overall efficiency

Data Analyst Intern, New York City, New York

April 2024 - June 2024

The Hour

- Analyzed 10,000+ datasets to estimate accurate home valuations and market prices using statistics
- Collaborated with cross-functional teams to refine data collection processes, ensuring compliance with standards
- Conducted thorough research to identify and flag potential issues with properties, ensuring readiness of homes
- Utilized Excel, Datawrappers, and file sorting to extract and analyze data, driving informed decision-making

PROJECTS

Mood Recognition Music Player *Python, JavaScript, OpenCV, Flask, Matplotlib, HTML, CSS*

- Developed a full-stack app using facial recognition to analyze user moods and adjust song selection based on reactions
- Integrated AI models, Flask backend, and Spotify API to provide a personalized music experience
- Reduced mood detection latency by 30% and visualized mood data in real-time using Matplotlib
- Built a responsive frontend with HTML, CSS, and JavaScript, boosting user experience by 40% through smooth interactions

Dynamic Memory Allocator *C, Python*

- Designed and implemented a dynamic memory allocator, enabling efficient memory management by reducing allocation overhead by 25%
- Engineered and optimized a custom memory allocator that improved memory efficiency by 30%, reducing runtime overhead and enhancing application performance
- Integrated advanced memory management techniques, reducing overall fragmentation by 15%

Huffman Compressor *Java*

- Developed and designed a Huffman coding algorithm that achieved up to 40% file size reduction, optimizing storage efficiency and retrieval speed

Forest Fire Monitor *JavaScript, React, HTML, CSS*

- Developed a web application using JavaScript and React to trace forest fires across North America
- Integrated NASA's API to dynamically fetch and display forest fire data through real-time
- Utilized Google Maps API to create an interactive map interface, allowing users to explore affected areas
- Optimized app performance through code-splitting and minimizing API requests, reducing load times by 50% for users

SKILLS

Languages: Java, Python, C, JavaScript, HTML, CSS

Frameworks/Libraries: React, Node.js, Flask, Spring Boot, NumPy, Matplotlib, Docker

Developer Tools/Methodologies: VS Code, Eclipse, Visual Studio, Maven, Gradle, PyCharm, IntelliJ, Agile, Git