

Praneet Komandur



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EDUCATION

University of Texas at Dallas Bachelor's of Science, Computer Science | Richardson, TX

Expected Graduation: May 2026

PROFESSIONAL EXPERIENCE

Software Developer Intern (AI/Robotics)

Remote

MINDHOME

April 2024 - August 2024

- Implemented ROS2 for autonomous navigation and sensor integration in robotics.
- Engineered intuitive robotic gestures to enhance human-robot interaction.
- Developed personalized conversational AI modules using NLP for adaptive behaviors.
- Contributed to VR teleoperation systems for precise remote control of robots.
- Collaborated on object recognition algorithms to improve accuracy in dynamic environments.

Software Developer Intern (Web Developer)

Remote

MINDHOME

January 2024 - April 2024

- Developed web interfaces for <https://www.mindhome.co/pages/servicehome3>
- Designed physical configurations to optimize functionality
- Built responsive user interfaces with ReactJS
- Structured and styled web content with HTML and CSS
- JavaScript used for real-time data visualization with D3.js and Redux state management

PROJECTS

Recipe Search (Python, HTML, CSS, JavaScript)

- Crafted a Flask-powered web application utilizing the Spoonacular API.
- Prompted users to input three ingredients to retrieve multiple recipes with images and detailed instructions.
- Executed API integration and adept data handling for real-time recipe suggestions.
- Showcased expertise in Python, API integration, and web development on GitHub.
- Optimized ingredient usage and streamlined meal planning processes for enhanced user experience.

TweetHelp (Python)

- Developed a Python application combining OpenAI's GPT-3.5-turbo and DALL-E models.
- Generated concise website summaries and accompanying images, tweeted using the Twitter API.
- Implemented Flask for the web interface, facilitating user interaction and service-specific requests.
- Enhanced social media engagement through automated, professional, and visually appealing content creation.

ComposerAI (Python)

- Utilized LSTM neural networks with Keras API and TensorFlow to generate piano compositions from MIDI files.
- Learned patterns in notes and chords, predicting sequences for new compositions.
- Employed TensorFlow for efficient model training and conversion of output back to MIDI format.
- Demonstrated proficiency in AI and machine learning for musical composition applications.

SKILLS

Programming Competency: Python, Java, C++, C#, HTML, CSS, JavaScript

ML Libraries and Frameworks: PyTorch, TensorFlow, NumPy, Pandas, matplotlib

Databases and Frameworks: MySQL, NodeJs, ReactJs, Flask, SpringBoot

Additional Skills: Agile methodologies, DevOps practices, problem-solving, project management, API integration