

# Leonardo Pariano

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## Education

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### Bachelor of Science Degree in Computer Science

08/2020 – 12/2024

University of Central Florida

Orlando, United States

#### Relevant Coursework:

- Data Structures and Algorithms, Object-Oriented Programming, Introduction to Full Stack Development, Web Development, Systems Software, AI for Gaming

## Projects

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### ASL Reader Project | Python, OpenCV, TensorFlow, MediaPipe

- Developed an ASL interpreter using Python and TensorFlow, converting ASL gestures to text/speech in real-time for improved accessibility.
- Leveraged OpenCV and MediaPipe for high-precision ASL gesture recognition, aiding the deaf and hard-of-hearing community.
- Managed version control with Git, enhancing team collaboration and project tracking.

### AI Smart Cane | Linux, Python, ROS

- Used Python for sensor data processing, enabling environment interpretation.
- Employed ROS for intra-device communication
- Created an obstacle detection and avoidance system with feedback through haptic and audio cues.
- Implemented the A\* algorithm for efficient pathfinding.

### CodeKnights | Node.js, Express.js, JavaScript, MongoDB

- Built multiple API endpoints to serve as the backend, handling CRUD operations and supporting middleware for authentication and error-handling.
- Developed a dynamic frontend that offers real-time data rendering, efficient state management, and a responsive user experience.
- Used Git for version control, ensuring a streamlined workflow and collaboration with multiple developers.

## Professional Experience

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### Software Engineer Intern

Rekndle

- Developed RESTful Shopify APIs to streamline inventory management and product listing for refurbished phone sales.
- Authored custom scripts for aggregating inventory from various sellers, enabling targeted product selection for our e-commerce platform.
- Enhanced online sales by automating the filtering and posting process of desirable inventory items on the company website.

### Software Engineer Researcher

Cornell University

- Contributed to a team at Cornell, developing a smart cane for visually impaired individuals
- Conducted research to understand challenges faced by visually impaired individuals