

Jack Wardlaw

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Education

University of Florida Honors Program, Gainesville, FL

May 2026

- *B.S. in Computer Engineering* GPA: 4.00
- Relevant coursework: Programming 1 & 2, Data Structures & Algorithms, Computer Organization, Exploring AI

Experience

Undergraduate Research Assistant

Jan 2023 – Present

University of Florida SmartData Lab, Gainesville, Florida

- Leveraged several python libraries for computer vision including NumPy, OpenCV, and SciPy in an offline Linux environment to develop solutions and improve accuracy for complex image recognition problems
- Designed a convolutional neural network from scratch using PyTorch library to identify images as one of two classes with over 90% accuracy
- Communicated with faculty and graduate students on new approaches, presented findings at meetings, and learned about fundamental machine learning tools and strategies

Study Abroad Intern

May 2023 – Jul 2023

ForestChain, Madrid, Spain

- Spearheaded U.S. expansion by updating WordPress website, creating English video tutorials of company software, and landing meetings with 2 large U.S. lumber associations comprising 900+ businesses
- Established CRM database using HubSpot by researching, organizing, and uploading 700+ contacts and possible clients
- Articulated PRDs for expansion projects by consolidating management's ideas into coherent tasks for developers

Front-End Website Development

Jul 2021 – Aug 2021

Venice Vikings Youth Football Organization, Venice, Florida

- Implemented HTML & CSS with Bootstrap framework and AOS library to create a responsive and appealing website
- Coordinated with team staff to design webpages, listened to feedback, and made modifications to enhance user experience and information accessibility
- Debugged and tested code, improving problem-solving skills and maintaining an error-free website

Skills

Java | C++ | Python | JavaScript | React.js | Node.js | HTML&CSS | MySQL | MongoDB | WordPress | Git | Arduino

Involvement

Dream Team Engineering

Aug 2023 – Present

Software Engineering Division

- Developed React.js code with Three.js library to dynamically display 3D modeled objects retrieved from an AWS database, improving transparency for patients and testing capabilities for doctors preparing for an LVAD heart implant
- Designed and styled components of the web application with CSS to create a user-friendly interface
- Collaborated with team of 6 members on a web application, employing GitHub version control to facilitate code management

Honors Athletics

Nov 2022 – Present

President

- Led weekly meetings and created an inclusive environment for 30+ students to safely relieve school stress through recreational sports
- Presented about *Honors Athletics* and orchestrated several team-building activities at Honors Program conferences, networking events, and town halls to increase membership
- Empowered students to go out of their comfort zone, foster meaningful relationships, and learn new sports

Projects

<https://github.com/jackw00>

Food Shuffle

Jun 2023 – Aug 2023

- Developed web application that allows users to add categorized foods to a database and randomly generate foods based on their category. User-friendly interface to view, edit, and delete database entries.
- Node.js, Express.js, React.js, MySQL, Axios, Tailwind CSS

Whack-A-Light

Nov 2022 – Dec 2022

- Navigated tight cost and size constraints to create a functioning prototype toy for children with movement disorders to practice and develop their fine motor skills
- Arduino - programming and circuit building, OnShape – CAD and 3D printing