

# JACK WARDLAW

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## Education

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### University of Florida

*B.S. in Computer Engineering, Honors Program*

**May 2026**

*Gainesville, FL*

GPA: 4.00

Relevant coursework: Data Structures & Algorithms, Digital Logic, Signals & Systems, Operating Systems (in progress)

## Experience

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### SmartData Lab

**Jan 2023 – Present**

*Undergraduate Researcher*

*Gainesville, FL*

- Accepted into the 32nd American Society of Nondestructive Testing Research Symposium by coauthoring a technical paper concerning machine learning algorithms for anomaly detection of ultrasonic C-scans.
- Designed an active learning system in under 6 weeks to improve anomaly detection accuracy with minimal data by intelligently selecting predictions from YOLOv5 and querying human annotators.
- Identified images as one of two classes with over 90% accuracy by designing a convolutional neural network from scratch and leveraging PyTorch, NumPy, OpenCV, and SciPy libraries in an offline Linux environment.

### JPMorganChase

**Jun 2024 – Aug 2024**

*Software Engineering Intern*

*Tampa, FL*

- Developed and deployed a Spring Boot application for API handling with high availability and optimal performance under varying loads, managing \$4,000,000 in chargebacks daily, by leveraging AWS ECS for seamless auto-scaling.
- Optimized application speed, security, and scalability for over 200,000 daily requests to 3rd-party APIs, by transitioning from an on-premises proxy to a cloud proxy using AWS Internet Gateway.
- Accelerated development and ensured consistent delivery standards by engineering efficient CI/CD pipelines with Jenkins for testing automation, Spinnaker for deployment orchestration, and Terraform for cloud infrastructure provisioning.
- Enhanced application reliability by implementing aspect-oriented programming techniques for error handling and logging, and configuring a dashboard with alarms in AWS CloudWatch.

### ForestChain

**May 2023 – Jul 2023**

*Study Abroad Intern*

*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 over 900 businesses.
- Established CRM database using HubSpot by researching, organizing, and uploading over 700 contacts and clients.
- Articulated PRDs for expansion projects by consolidating management's ideas into coherent tasks for developers.

## Involvement

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### Dream Team Engineering

**Aug 2023 – Present**

*Software Engineering Division*

*University of Florida*

- Dynamically displayed 3D objects from an AWS S3 bucket to aid doctors in LVAD heart implant preparation and improve patient understand of the procedure, by integrating Three.js library components with React.js.
- Coordinated a collaborative and efficient environment amongst a team of five members by employing GitHub version control for code management and Vercel integration for continuous deployment.
- Refined web application components for React.js architecture best practices and an intuitive user interface with CSS.
- Innovated a product to make medicine fun for children by designing a JavaScript and SQL web app and 3D-printed component for medicine tracking and storage, earning the people's choice award.

### Honors Athletics

**Nov 2022 – Present**

*Founder & President*

*University of Florida*

- Created an inclusive environment for 30+ Honors Program students to safely relieve school stress through physical activity by coordinating and leading weekly recreational sport activities.
- Generated considerable membership and earned an annual budget of over \$300 in under three months by presenting about Honors Athletics and orchestrating team-building activities at Honors Program networking events and town halls.
- Empowered students to go out of their comfort zone, foster meaningful relationships, and learn new sports.

## Technical Skills

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**Languages/Frameworks:** C++, HTML/CSS, Java, JavaScript, MATLAB, Node.js, Python, React, Spring, SQL

**Technologies:** Arduino, AWS (Certified Cloud Practitioner), Docker, Git, Jenkins, Linux, MongoDB, Spinnaker, Terraform