Aiden Letourneau

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EDUCATION

University of Central Florida Orlando, FL
Bachelor of Science in Computer Science, Minor in Mathematics GPA: 4.0 *Aug. 2023 – May 2027*

PROJECTS

Portfolio Website | *Node.js, Express.js* Jan. 2023 – Present
- Developed an interactive portfolio website to showcase personal projects and experience
- Built a RESTful API with Express.js, decreasing load times by 16% and increasing site efficiency.
- Utilized GitHub for version control, reducing deployment errors through effective branch and commit management.

EZ Scan | *Node, Express, MongoDB* Jan. 2024 – Present
- Created a document scanner web app, providing extra features to help with accessibility.
- Developed the back-end using Node and MongoDB, resulting in a 22% faster document processing time.
- Integrated Python scripts for image processing, increasing the accuracy of scanned document text extraction by 35%.

Orientation Drone | *Python, Mediapipe, cv2* Aug. 2023 – Present
- Developed drone software for automated aerial videos/photos for UCF orientations, improving campus coverage by 60%.
- Utilized computer vision libraries for real-time data analysis from drone footage, increasing data processing speed by 39%.
- Implemented hand gesture recognition for interactive controls, enhancing user interaction and accessibility.

ORGANIZATIONS

Association of Computing Machinery UCF Aug. 2023 – Present
University of Central Florida *Orlando, FL*
- Achieved top 5 placement in the largest ACMSE Conference Hackathon by building a ML (LSTM) model to determine best times to buy and sell stock with a final return of 30%
- Led collaborative software projects, improving project completion rate by 20% through effective teamwork and strategy sessions.

Knight Hacks UCF Jan. 2024 – Present
University of Central Florida *Orlando, FL*
- Run and assisted in multiple technology workshops including web development and basic python.
- Supported the UCF Knight Hacks community through active participation and project contributions, fostering a collaborative environment.

RELEVANT COURSEWORK

COP 3223, Intro to C Aug. 2023– Dec. 2023
University of Central Florida *Orlando, FL*
- Developed an understanding of C data structures and algorithms and implemented them into coursework a own personal projects.

COP 3330, Object-Oriented Programming Jan. 2024– Apr. 2024
University of Central Florida *Orlando, FL*
- Implemented object-oriented programming concepts in Java.
- Mastered Java fundamentals, enhancing the ability to develop robust software solutions.

TECHNICAL SKILLS

Languages: Java, Python, C, JavaScript, HTML/CSS
Frameworks: React, Express
Developer Tools: Github, VS Code, Eclipse
Libraries: pandas, NumPy, Matplotlib, mediapipe, cv2