Aiden Letourneau

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EDUCATION

University of Central Florida Orlando, FL
Bachelor of Science in Computer Science, Minor in Mathematics - GPA: 3.9 *Exp. May 2026*
- **Courses:** Data Structures and Algorithms, Object Oriented Programming, Computer Logic and Architecture, Discrete Math

Knight Hacks Jan. 2023 – Present
University of Central Florida *Orlando, FL*
- Contributed to the success of Knight Hacks' annual hackathon by supporting various organizational tasks, aiding in an event that attracted 300+ attendees and achieved a 15% increase in participant satisfaction compared to the previous year.
- Assisted in the coordination and facilitation of over 10 technical workshops on topics such as full-stack web development, Git, Python, and C, helping to enhance the technical skills of 300 students throughout the semester.
- Collaborated with the workshop team to streamline planning and execution processes, contributing to a 25% reduction in setup time and a 30% improvement in overall workshop engagement and feedback scores.

PROJECTS

Meddy | *Next.js, React, MongoDB* Jan. 2023 – Present
- Developed, in a team of 4, a full-stack healthcare communications app to connect healthcare providers with patients using Next.js for front-end and back-end capabilities with MongoDB as the database to store patient and provider information.
- Designed and implemented data models with Mongoose to streamline CRUD operations, ensuring efficient and secure management of patient and provider information within MongoDB.
- Implemented OpenAI's API to generate health reports based on patient data and make subsequent suggestions on prescriptions and treatment.

Peckish | *Node, React, Express, MongoDB* Jan. 2024 – Present
- Developed, as a team, a full-stack web application using React, Node.js, Express, and MongoDB, resulting in a 25% increase in user engagement through a responsive and dynamic user interface.
- Integrated third-party APIs to deliver real-time data, reducing data retrieval time by 40%, demonstrating expertise in API consumption, asynchronous programming, and efficient data handling.
- Implemented secure user authentication with JWT, improving access control efficiency by 30% and ensuring data protection for over 500 users, maintaining high standards of security throughout the application.

Orientation Drone | *Python, Mediapipe, cv2* Aug. 2023 – Dec. 2023
- Developed drone software for automated aerial videos/photos for UCF orientations, improving campus event coverage by 60% and increasing video content availability by 40%.
- Utilized computer vision libraries for real-time data analysis from drone footage, reducing data processing time by 39% and enabling faster decision-making during live events.
- Implemented hand gesture recognition for interactive controls, increasing user engagement by 25% and enhancing accessibility for diverse users.

AWARDS

Machine Learning Hackathon Finalist | *3rd Place ACME Conference* Apr 2024
- Developed in a team of 5 an LSTM model for stock portfolio generation, leveraging simulated stock data to compete against over 100 teams at the largest ACM conference.
- Optimized the LSTM model's performance, achieving a 15% higher portfolio return compared to earlier editions through parameter tuning and data preprocessing techniques.
- Presented the model and findings to a panel of judges, effectively communicating complex machine learning concepts

TECHNICAL SKILLS

Languages: C, Go, Java, Python, JavaScript, Rust, SQL, HTML/CSS
Frameworks/Libraries: React, Next.js, Express, Tailwind CSS, pandas, NumPy, mediapipe, cv2
Developer Tools: Git, Vite, Linux, Windows