Samuel Watts

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EDUCATION

University of Central Florida Expected Graduation: August 2025

- **Degree:** B.S. in Computer Science
- **GPA:** 3.75
- **Recognition:** President's List (Fall 2023), Scholar's Award (2023), Dean's List (Spring 2024), Hackathon Winner (2024)
- **Relevant Coursework:** Data Structures and Algorithms, Object Oriented Programming, Computer Logic, Machine Learning, Linear Algebra, Cybersecurity

PROFESSIONAL EXPERIENCE

Lockheed Martin – CWEP Software Engineering Intern July 2024 - Present

- Created a python script to generate real-time plots from CSV data within an aerospace project, enabling automated analysis of metrics like Allan variance to assess reliability and performance of the model
- Identified and resolved compatibility issues in project configurations and codebases, enabling seamless integration and constant behavior of legacy projects with the updated CI/CD pipeline
- Collaborated with a cross-functional team using Agile methods to restructure and optimize a shared CI/CD pipeline, enhancing clarity and accessibility for multiple projects, resulting in an 18% reduction in support requests and smoother onboarding for new adopters

University of Central Florida – Undergraduate Researcher April 2024 – July 2024

- Conducted research utilizing machine learning techniques in MATLAB to analyze the correlation between music stimuli and electrical/mechanical metrics of the heart
- Developed and implemented data visualization techniques to present findings, creating a clearer understanding of complex heart metrics

PROJECTS

Property Management

- Developed a full stack interactive dashboard using Vue.js, CSS, and HTML
- Communicates with the PostgreSQL database using RESTful API's
- Allows different user accessibility/views based on logixn authentications and role (Manager, Renter, Maintenance)

Hand Tracker

- Created a real-time hand gesture recognition program combing the MediaPipe and OpenCV libraries in python
- Incorporated PyAutoGUI to simulate keyboard inputs based on hand gestures
- Calculated and displayed current frames per second (FPS) for performance monitoring

Titanic Survival Predicter

- Developed machine learning model to predict survival outcomes for passengers on the Titanic with over 76% accuracy
- Implemented exploratory data analysis techniques to gain insight into the dataset's characteristics
- Engaged in feature engineering by transforming existing features to enhance the power of the predictor

TECHNICAL SKILLS

Languages: Java, C, Python, C++, JavaScript, Typescript, React, Flutter, MATLAB, YAML, Swift, HTML, CSS

Frameworks: Node.js, Streamlit, Vue.js, SpriteKit, Spring Boot, Django, TensorFlow

Tools: Git, GitLab, GitHub, Linux, Visual Studio Jira, MongoDB, Docker, SQL databases (NoSQL / MySQL), Jupyter Notebooks

Involvement

KnightHacks | *Development Team/Club member* January 2024-Present

- Won 1st place in hackathon for Best Use of Streamlit with project Banter Bots
- Collaborated with a cross-functional team to design, develop, and maintain a contact manager website
- Contributed to version control and documentation, ensuring smooth project handoffs and updates
- Working Full-Stack (front-end/back-end) with JavaScript, Typescript, and REST APIs to implement new features in a Bluetooth Attendance project