

ETHAN DEAN

(407) 920-5104 ◦ ethandean7@gmail.com ◦ linkedin.com/in/ethandean1 ◦ github.com/ethan-dean ◦ ethandean.dev

PROFESSIONAL SUMMARY

I am a student and an advancing developer with experience building embedded and desktop applications at the enterprise level as well as web and machine learning applications outside of work and class. My goal is to constantly find new challenges and expand my knowledge.

EXPERIENCE

Student Researcher

Future Data Lab @ UCF

July 2024 – Present

Orlando, FL

- Extract sub-graphs of transaction data from the blockchain with python RPC APIs to analyze transformation

Software Engineer Intern

Lockheed Martin

May 2024 – Present

Orlando, FL

- IRAD Advanced Algorithms development with MATLAB
- Led a **2-week** procedure for urgent software certification for critical verification of production processes
- Worked through stages of product lifecycle from research, design, development, testing, to integration
- Optimized C++ algorithm, reducing runtime by **60%**, enabling the team to meet project requirements

Software Engineer CWEP

Lockheed Martin

Jun 2023 – May 2024

Orlando, FL

- Designed and integrated **5** built-in tests in C for embedded code on aircraft
- Implemented **20+** high-priority features for C++, C#, and python GUI applications used by engineers and integration team streamlining processes by **50%**

Data Acquisition Team

University of Central Florida

Aug 2022 – May 2023

Orlando, FL

- Worked as a small team to create **60hz** onboard telemetry communication on a Rasp. Pi for a racing vehicle
- Developed the python script to read and process **4** streams of telemetry data from the vehicle

PROJECTS

Cruise Connect | Javascript, React, Node, Express, MariaDB, Docker, AWS, Clerk

2024

- Developed social media web app to help people meet before their cruise departs
- Engineered Docker-based containerization of the application, enabling seamless AWS deployment and cutting development cycle time by **50%**, while enhancing scalability and reliability of the system
- Integrated Clerk API for user authentication and utilized OAuth to streamline secure login processes
- Used MySQL fork, MariaDB, open source database for efficiently storing and querying user and cruise data

Embedded System Testbench | Python, PyQt, PySerial

2023

- Design and deployment of cross-platform app that polls boards with UART commands using PySerial
- Implemented multi-threading to prevent event loop blocking by offloading read/write operations to a thread with a dedicated queue, significantly enhancing app responsiveness

EDUCATION

University of Central Florida

Bachelor of Science in Computer Science, Minor in FinTech

Aug 2022 – May 2026

Orlando, FL

- GPA: 3.987; SAT 1500/1600; ACT 34/36; Dean's List 2022-2024
- National Merit Scholar and UCF Burnett Honors Scholar
- CS Courses: Data Structures and Algorithms, Computer Architecture, Enterprise Computing
- Mathematics Courses: Calculus I, II, & III, Differential Equations, Matrices and Linear Algebra, Statistics
- Other Courses: Corporate Finance, Financial Derivatives, Foundations in Financial Tech

TECHNICAL SKILLS

Skills: Agile | Apache | Assembly Languages | AWS | Backend | Bash | C | C++ | C++ MFC | C# | Clerk | Cloud Infrastructure | CSS | Django | Docker | Eclipse | Excel | Express | Flask | Frontend | Full Stack | Git | HTML | Java | JavaScript | JavaScript | Jira | Linux | MATLAB | MySQL | Next | Node | PostgreSQL | Postman | PyQt | Python | Qt | React | Rest APIs | SQL | Swift | Tailwind | TypeScript | Unix | Vite | VS Code | VS Pro | Webpack