Caleb Monteiro

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Education

University of Toledo, Toledo, Ohio *Bachelor of Science: Computer Science and Engineering*
Anticipated Graduation: **December 2027** | *Jesup Scott Honors* / GPA: **3.5**

Technical Skills

- *Languages*: Java, Python, C++ *Tools:* Microsoft Office Suit, Figma, MATLAB, JMP, **SQL**, AutoCAD
  Web Dev: HTML, CSS, JavaScript, **React** *Other Skills:* Data Structures and Algorithms

Experience

First Solar, Perrysburg, Ohio
Module Engineering Intern   January 2025 – May 2025

- Spearheaded the implementation of tablet-based checklists using Power Apps, enhancing data accuracy and streamlining operations for over **50+ operators.**
- Engineered and deployed JMP scripts for real-time tracking and alarm analysis, boosting tool performance and decision-making processes, resulting in a **20% reduction in downtime.**
- Automated Excel yield tracking with SQL integration, streamlining data entry and **reducing manual errors by 40%** for 10,000+ daily modules.

Engineering College Computing Department, Toledo, Ohio   August 2024 – December 2024
IT Help Desk Technician

- Provided technical support to students, faculty, and staff, resolving hardware and software issues efficiently.
- Managed and maintained computer labs, ensuring all systems were up-to-date and functioning properly.
- Assisted in the **upgrade of 100+ computers** using standardized imaging processes, **improving system performance by 25%.**

University Of Toledo, Toledo, Ohio   May 2024 - July 2024
Orientation Leader

- Led orientation sessions for over 200 students, ensuring seamless campus transitions.
- Collaborated with a team of 22 peers and supervisors to ensure smooth operation of orientation activities, utilizing strong communication and teamwork skills.

Projects

Course Scheduler App (Smart Class Planning for UToledo Students)   May 2024

- Developed a full-stack web application using React, Flask, and Python, **reducing manual scheduling time by over 70%** for students and advisors.
- Implemented intelligent scheduling algorithms to detect and prevent time conflicts, while honoring over 5 user-defined constraints (e.g., "no Friday classes"), **reducing student/professor scheduling frustration**.

AI-Powered Voice Assistant on Pi0 (Low-power, always-on voice assistant utilizing the Gemini API)   April 2024

- Configured Raspberry Pi GPIO pins to provide visual feedback (LED status indicators), enhancing user experience and showcasing direct hardware control within an embedded system.
- Integrated USB audio peripherals and developed Python scripts for real-time speech-to-text and text-to-speech processing, **achieving <1 second response latency** for conversational interaction with the Gemini API.

ReviewGenie (AI-powered review tool)   October 2024

- Developed an embeddable widget to simplify user reviews and provide AI-driven business insights.
- Designed a responsive **React-based frontend** for seamless website integration and improved UX.

EcoNet.ai (AI insights for renewable energy accessibility)   June 2024

- Optimized renewable energy deployment strategies through interactive data visualization.
- Created a **user-friendly interface using Figma** and front-end development techniques.

Amazon-inspired Frontend (Replicated Amazon's webpage UI using HTML, CSS and JS)   January 2024

Collegiate Activities

RocketHacks, President   January 2025 – Present

- Directed RocketHacks 2025, managing a **25-organizer team and 200+ participants** for a successful event.

Association for Computing Machinery (ACM), Treasurer   June 2024 – May 2024
Institute of Electrical and Electronic Engineers (IEEE), Student Member   August 2023 – Present