Sofia Cobo

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EDUCATION

University of South Florida   Tampa, FL
Bachelor of Science in Computer Science   *Aug 2024 – May 2026*

SKILLS

Programming Languages: Python, C, C++, C#, SQL, R, JavaScript, HTML, CSS, COBOL

Frameworks & Tools: React, FastAPI, Node.js, Docker, Git, GitHub, VS Code

AI & Databases: OpenAI API, Langchain, Computer Vision, PostgreSQL, Mediapipe

Languages: English (fluent), Spanish (native), Portuguese (advanced)

EXPERIENCE

Research Assistant   June 2025 – Present
RARE Lab University of South Florida   *Tampa, FL*
- Achieve an efficient face recognition User interface that improved interaction and functionality
- Integrated computer vision outputs with Dynamixel motors via pypot for natural head-tracking behavior
- Created wake word with Porcupine and linked it with speech-to-text and text-to-speech for robot conversations.
- Configured noVNC remote desktop for headless GUI access, reducing setup time and simplifying testing.
- Collaborated in an Agile environment with daily meetings, applying Git/GitHub for efficient team development.
- Selected for a competitive, funded research program with the Computing Research Association.

Research Assistant   October 2024 – July 2025
MiNT Lab University of South Florida   *Tampa, FL*
- Analyzed data using R and SPSS collected with REDCap software contributing to project reports and outcomes
- Applied Latent Profile Analysis (LPA) to classify student well-being groups identifying psychological patterns
- Conducted statistical testing (ANOVA, BIC, post-hoc Tukey) to compare reading outcomes across profiles
- Created visualizations with NumPy and Matplotlib to communicate insights to faculty and research partners.
- Won Undergraduate Interdisciplinary Research Award at OneUSF Conference for individual project

PROJECTS

TheraPlay | *JavaScript, HTML, CSS, MediaPipe, Flask, React, Gemini API, Capacitor*   October 2025 - present
- Built a rehabilitation platform with MediaPipe's ML models for movement analysis during physical therapy
- Designed interactive gameplay driven by patient body movements to enhance therapy engagement
- Converted web application to iOS/Android apps via Capacitor, enabling camera access and motion tracking
- Won 1st place best hack at Health Hacks USF

AI-Powered Task Management App | *React, TypeScript, FastAPI, SQL, OpenAI API*   Aug 2025 — Present
- Build the foundation: React/TS front end, FastAPI backend, PostgreSQL data model; deliver core task CRUD.
- Prototype natural language task creation with OpenAI + LangChain that turns free text into structured tasks.
- Sketch productivity analytics and prioritization; outline the evaluation plan for the next iteration.

InCollege Software Engineering | *COBOL, Docker, Slack, Jira*   August 2025 - present
- Develop InCollege, a LinkedIn-style networking platform for college students, using COBOL
- Apply Agile principles with Jira and Slack, rotating roles (scrum master, developer, tester)
- Deploy with Docker and maintain version control with Git GitHub for team re-usability and collaboration.

LEADERSHIP

Programming Club Founder and President   Aug 2023 – May 2024
Hillsborough Community College   *Tampa, FL*
- Recruit members, establish an executive board, and secure a faculty mentor for club success.
- Led workshops on web development to promote learning programming skills.
- Organized collaborative coding projects to emulate a professional team work environment.