

Samuel Montalbano

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GitHub: <https://github.com/Sammontalbano22>

Personal Portfolio: <https://sammontalbano22.github.io/sammontalbanoportfolio/>

EDUCATION:

- University of Denver - Expected Graduation: June 2026
- Bachelor of Science in Computer Science and Bachelor of Science in Mathematics
- GPA: 3.59 | Major GPA: 3.8 | Dean's List: 2024
- Daniels Fund Scholar | Provost Scholar | Dean's List Recipient

TECHNICAL SKILLS:

Programming Languages:

- Python(Primary), Java, Swift, MYSQL, HTML, CSS, JS, C++, C

Tools & Technologies:

- Git, Visual Studio Code, JShell, GAIA GPS, MySQL Workbench, Firebase, Open AI API, Google APIs, MATLAB, Xcode, GPT Models, CO-PILOT

CLASSES:

Database Management, Secured Systems Engineering, Systems programming(Assembly, Memory Allocation, Parallel Processing), Linear Algebra, Computer Security

PROFESSIONAL EXPERIENCE:

Aerospace Intern

Colorado Space Business Roundtable (Jun 2024 - Jul 2024)

- Selected for a competitive hybrid internship program combining industry exposure, technical workshops, and networking with aerospace professionals.
- Visited leading organizations including Lockheed Martin, BAE Systems, Sierra Space, Advanced Space, and Astroscale, gaining direct insight into current aerospace innovations, mission planning, and space sustainability.
- Collaborated with peers on a BAE Systems-sponsored case study, developing a conceptual solution to a real-world aerospace challenge.
- Participated in a rocket propulsion and trajectory simulation lab with University of Colorado Denver, applying MATLAB to model basic flight dynamics.
- Attended expert-led panels and workshops focused on career pathways, project planning, and technical communication in the space sector.

Lead Website Administrator

Breezy Strategies (Jan 2023 - Jul 2024)

- Designed and managed 15+ school district websites for SCAP Colorado in partnership with the University of Colorado, Denver.
- Led statewide training for over 40 participants on website management and accessibility.
- Created the flagship SCAP website, securing a landing page for 20+ districts.
- Utilized CSS, JS, HTML to connect database to web applications.

PROJECTS:

CollegePathwaysAI

Swift, Firebase, MySQL, OpenAI API

Manager & Developer (Oct 2024 - Present)

- Designed and led development of an iOS app delivering personalized college readiness support through an AI-powered virtual counselor.
- Integrated OpenAI's API to simulate dynamic, conversational guidance on applications, scholarships, and academic planning.
- Built features including a university search engine, admissions essay review tool, and scholarship preparation modules.
- Implemented Firebase for real-time user authentication, data storage, and progress tracking; integrated MySQL to support structured user data.
- Focused on accessibility and equity, especially for first-generation and rural students navigating the college admissions process.

RIT Collaborator Project Sidewalk

Java

Contributor (Oct 2024 - Present)

- Contributed to the open-source Project Sidewalk initiative, a crowdsourced mapping and accessibility.
- Enhanced the sidewalk data processing and routing functionality using Dijkstra's algorithm for a Rochester Institute of Technology research project.
- Leveraged the Sidewalk API to access real-world sidewalk data, supporting equitable pedestrian navigation solutions for users with mobility challenges.

Note: Work built upon and contributed back to a larger open-source codebase; not solely authored.

The Sticky Note Project

React, Node.js

Full Stack Developer Creator and Developer (May 2025-Present)

- Developed a web application that helps users set, track, and accomplish long-term goals through habit-building, milestone planning, and AI-generated strategies.
- Inspired by personal experience overcoming obstacles to earn a prestigious Daniels Fund full-ride scholarship, the app promotes consistency and intrinsic motivation through daily micro-goals.
- Engineered key features including: A dynamic sticky note board for visualizing and managing long-term goals, AI-powered progress counselor.

HOBBIES:

- Golfing | Fishing | Rocket Design | Classic Literature | DIY Engineering Projects | Vinyl Collecting | Traveling