New York • (516) 974-2139 • sh4506@columbia.edu • /in/sebastianhorta03 • github.com/SebasHorta

Aug 2023 - May 2026

- *Relevant coursework*: Artificial Intelligence, Systems Programming, User Interface Design, Linear Algebra, Fundamentals of Computer Systems, Computer Science Theory, Intro-Electrical Engineering, Data Structures, Discrete Math, Probability for Engineers
- *Resident Adviser (Engagement Coordinator)* (2024-Present): Organize community-building events

Aug 2022 - May 2023

- CGPA: 4.0 (President's List), Collegiate Science and Technology Entry Program (CSTEP)

- : Java, Python, C, JavaScript, HTML/CSS
- React, Flask, Bootstrap, Git, SQL, TensorFlow, scikit-learn
- GCP, Unix/Linux, APIs, Web Servers
- : English (Fluent), Spanish (Fluent), French (Basic)

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- Incoming intern expected to assist in system-level development, hardware-software integration, and tools supporting energy automation platforms.

- Built an interactive educational Flask web app with JavaScript and Bootstrap to teach ISO, shutter speed, and aperture through real-time sliders and visual feedback.

- Built ML pipeline analyzing VR sensor data to detect gait events with accuracy via advanced preprocessing, feature engineering, and Random Forest models.

- Built a multithreaded HTTP/1.0 web server in C, handling concurrent GET requests and ensuring robust compliance with web protocols and file security.

- Developed a full-stack Python app with API integration to monitor food expiration dates, reducing food waste by through user notifications.

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- Organized professional and cultural events, including elevator pitch workshops, boosting inclusivity and SHPE visibility.
- Collaborated on a senior-led engineering project as a freshman, demonstrating early initiative and teamwork.
- Participated in local service initiatives such as Operation Christmas Child and community clean-ups.
- Columbia IEEE, ColorStack, CU Application Development Initiative, Columbia University Brazilian Jiu-Jitsu Club, Sabor Dance Club

- Anders Scholarship (2024) • Columbia University Nathaniel Arbiter Scholarship (2024) • FSC President's List (2022-23) • NYS Scholarship for Academic Excellence (2022)