

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)
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- : 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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- 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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- Honed skills in Object-Oriented Programming & Data Science tools.
  - Applied classical digital image processing and machine learning techniques to develop an algorithm for individual cell segmentation.
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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
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- Anders Scholarship (2024) • Columbia University Nathaniel Arbiter Scholarship (2024) • FSC President's List (2022-23) • NYS Scholarship for Academic Excellence (2022)