

# Daniel Manjarrez

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## EDUCATION

### Columbia University

New York, NY

*Bachelor of Science in Computer Science*

*Sep. 2022 – May 2026*

- Activities: QuestBridge Network, First-Gen Low Income Network, App. Dev. Initiative, DevFest Hackathon
- Relevant Coursework: Adv. Systems Programming, Data Structures, Databases, Operating Systems, UI Design

## EXPERIENCE

### Incoming SEO Tech Developer Intern

Jun. 2024 – Aug. 2024

*SEO — Sponsors for Educational Opportunity*

*Remote*

- Virtual intensive, free immersion program to propel first-year and sophomore Black, Latinx, and Native American computer science and software engineering college students to the next level including a PAID six-week residency
- Received technical and interpersonal skills, training, and mentoring needed to compete for entry-level tech roles at the top tech companies and start-ups through participating and completing a full stack web app team project

### Incoming Software Engineer Research Intern

Apr. 2024 – Present

*Columbia University — Computational Design Lab*

*New York, NY*

- Lab's goal is to build AI tools through brainstorming, synthesis, and iteration that enhance people's productivity
- Conducting large language model applications research under the mentorship of the lab's principal investigator
- Developing AI web application tools using Python, HTML, CSS, JQuery, Bootstrap, Flask, and GPT API

### Full Stack Developer Intern

Oct. 2023 – Present

*Secra — Columbia University Student Start-Up*

*New York, NY*

- Startup's goal is to develop an all-in-one GPT powered scheduling digital personal assistant for everyday life
- Working on implementing AI-to-AI communication and task coordination via a network of connected AI agents
- Developing digital personal assistant's web app interface using React, Flask, Python, GPT-4, AWS, MySQL

### Neurotech Systems Engineer

Sep. 2022 – Present

*Columbia Neurotech Club — Brain-Computer Interfaced Drone Project*

*New York, NY*

- Developed and optimized control algorithms for user interface between EEG helmet and drone using OpenBCI API
- Used BrainFlow Python library to obtain, parse, and analyze EEG data from neural biosensors from EEG helmet
- Utilized Matplotlib Python library to visualize data and NumPy Python library for neural data processing
- Utilized Tkinter GUI Python library to develop and extend on the GUI to monitor the drone and EEG helmet

## PROJECTS

### WeWater | *React, Flask, Mapbox, Python, GPT-4, AWS, MySQL, Google Maps API*

February 2024

- Community focused water quality awareness application that implements a reporting mechanism to let anyone in NYC report a water quality test that concisely displays visualized information from the EPA and NYC Water Quality that dynamically updates and provides water-quality advice based on a user's location and given history

### Online Comic Book Database Navigator | *Python, HTML, CSS, JQuery, Bootstrap, Flask*

January 2024

- Application provides an accessible online database on comic books with a web app interface that enables users to search for and add entries, ratings, info, and recommendations for their favorite comics that updates in real time

### Generative AI Notetaking | *Flask, Bootstrap, Python, HTML, CSS, JSON, GPT API*

November 2023

- Application that implements the GPT large language model in order to generate formatted and structured lecture notes from recorded lectures and slide decks for disability note taking services at Columbia University Engineering

### Weather Checker For Pilots | *Java, SQL, Google GSON, OpenWeatherMap API*

March 2022

- Application centralizes a database of airfields around the world and all the necessary weather information to evaluate whether it is safe to fly with a breakdown to help out pilots verify weather conditions and assess safety

## TECHNICAL SKILLS

**Awards:** QuestBridge Scholar, Engineering Dean's List, Class of 1969 Scholar, ColorStack Member, CS Student Mentor

**Languages:** Python, SQL/NoSQL, Java, JavaScript, x86 Assembly, C, C++, C#, HTML, CSS, Spanish

**Frameworks:** React, Node.js, Flask, Bootstrap, JQuery, Django, Jinja, Meta Quest Platform SDK

**Developer Tools:** Git, GitHub, MongoDB, MySQL, AWS, Google Cloud Platform, VS Code, PyCharm, IntelliJ, Unity

**Other Skills:** Adobe Suite (Photoshop, Premier, Illustrator), Audacity, ToonBoom, OBS Studio