

Nicole Sin

Brooklyn, NY

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EDUCATION

Cornell University, College of Arts and Science

Ithaca, New York

Bachelor of Arts in Computer Science & Mathematics

August 2022 – June 2026

- **GPA:** 3.5 / 4.0 | **Honors:** Dean's List Fall 2022 – Spring 2024
- **Relevant Coursework:** Analysis of Algorithms, Object-Oriented Programming, Functional Programming, Intro to Machine learning, Introduction to Python, Discrete Math, Statistics, Backend Development

Stuyvesant High School

New York, NY

- **GPA:** 95/100 | **Honors:** SAT – 1550, AP Scholar

PROFESSIONAL EXPERIENCE

Bank of America

New York, NY

Software Engineering Intern · Catalyst Team

June 2024 – Present

OnePointFive

New York, NY

Data Science Associate · Operations

June 2023 – September 2023

- Sustainability Article Generator: Developed a content-based article recommendation engine in Python, leveraging Pandas, Scikit-learn libraries, and CountVectorizer to get similarity score and recommendations.
- Funnel Analysis: Executed data collection and cleaning techniques to create a comprehensive dataset for sales funnel analysis. Created a Sankey diagram that illustrated customer retention and guided business decisions.

Cornell Tech

New York, NY

Software Engineering Summer Intern · FarLabs

June 2023 – August 2023

- TrashBot: Collaborated on deploying 2 remote trash robots (covered by FOX and Spectrum News), initiating a Wizard of Oz study to explore human-robot interaction in a video-coded dataset analyzed by YOLOv5.
- MiniBot: Leveraged ROS2 to program Minibot functionality, a scaled-down Trashbot model. Orchestrated live data retrieval from an ESP-32CAM, managing linear and angular velocities for optimal performance.

Medgar Evers College

Brooklyn, NY

Software Engineering Intern · SEO Team

January 2023 – May 2023

- Search Engine Optimization: Implemented meta tags and keyword optimization in website content, enhancing visibility and search engine ranking; improved organic website traffic through link building and data markup.
- UX redesign: Spearheaded a redesign of Medgar Evers website, using Figma to improve UX and increase responsiveness, and translated high-fidelity designs into a functional website to be deployed in Spring 2024.

PROJECTS

COVID-19 Data Set

Ithaca, NY

R Studio

March 2023

- Conducted exploratory analysis and statistical modeling to identify trends in COVID-19 patients using R.
- Executed data cleaning and transformation processes in RStudio to ensure the accuracy of web-scraped data.

Drowsiness Detection

Ithaca, NY

Python, Pytorch, OpenCV, Jupyter Notebook

June 2023

- Convolutional Neural Network approach to fine-tune and train a YOLOv5 model to detect eye movement.
- Used OpenCV to perform both the video capture and real-time detection of individuals as awake or drowsy.

PROGRAMMING SKILLS

Languages: Python, Java, HTML/CSS, JavaScript, R, Kotlin

Development Tools/Frameworks: React.js, Pytorch, Flask, Git/Github, Figma, Postman, Docker

Libraries: Pandas, NumPy, Bootstrap, SQLite, Scikit-learn, R: ggplot, tidy, janitor, googleVis