Nicole Sin

29 Bay 8th Street, Brooklyn NY, 11228
+1-718-755-3501 | ns753@cornell.edu | https://nicole-sin.github.io/portfolio/

EDUCATION

Cornell University, College of Arts and Science   **Ithaca, New York**
Bachelor of Arts in Computer Science   August 2022 – May 2026
- **GPA:** 3.64 / 4.0 | **Honors:** Dean's List 2022-2023
- **Relevant Coursework:** Object-Oriented Programming, Introduction to Python, Discrete Math, Statistics, Introduction to Backend Development, Introduction to Android Development

Stuyvesant High School   **New York, NY**
- **GPA:** 95/100 | **Honors:** SAT – 1550, AP Scholar

PROFESSIONAL EXPERIENCE

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, Pytorch, R, Kotlin
Development Tools: Machine Learning, Git/Github, Figma, Postman, Docker
Frameworks: React.js, Pytorch, Flask
Libraries: Pandas, NumPy, Pytorch, Bootstrap, SQLite, Scikit-learn, R: ggplot, tidyr, janitor, googleVis