

Mathias Prodani

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EDUCATION

New York University

B.A. Computer Science and Data Science, Minor in Economics

May 2024

New York, NY

EXPERIENCE

Computer Science at The Peddie School

Coordinator

September 2019 – May 2021

Hightstown, NJ

- Utilized **MongoDB**, **Heroku**, **NodeJS**, to develop a textbook exchange website for students
- Part of CS tutoring team
- Participated and led school team of four in hackathons

Max Rose for Congress

Part-time Volunteer

June 2020 – August 2020

New York, NY

- Collaborated with ten co-workers on outreach and forming personal connections with electors
- Conducted in-person canvassing on Staten Island three times a week

PERSONAL PROJECTS

ManageBac Mobile - 2018

- Built a **Java** based Android app for my school's grade management system.
- Utilized **Python** and HTML requests to build a custom **JSON API** that parses data from the gradebook.

IoT Painting - 2022

- Utilized electrical paint wired with an **Arduino** microcontroller to create a painting that changes lightbulb colors when tapped.
- Coded in **C++** for Arduino with the use of the IFTTT **webhooks API** over WiFi.

PaintingGAN - 2022

- Processed a dataset of ~15k paintings to run through a Generational Adversarial Network
- Trained a **Deep Learning** model using **PyTorch** and StyleGAN library to generate art like Van Gogh's
- Built a website to showcase generated images as well as a Colab document to recreate
- Working on publishing a Medium article and using the same approach in other applications

Context Quiz – 2021

- Used **HTML/CSS** the p5 JavaScript library to build a website with an interactive quiz.
- Connected with the **Google FireBase database** to store and summarize data.

Community Board - 2021

- Group project for a private forum for students to collaborate and share information.
- Used the **Django** Python framework and hosted the website locally through school servers.

RELEVANT COURSEWORK

Data Structures and Algorithms
AP Computer Science
Multivariable Calculus

Computer Systems Organization
Advanced CS Seminar
Intro to Data Science with Pandas
and Numpy

Discrete Mathematics
Linear Algebra
Intro to Machine Learning

SKILLS & INTERESTS

- Skills:** Java, JavaScript, Python, R, C++, HTML, CSS, C#, OOP, LaTeX, Italian, Albanian
- Interests:** AI, Optimization, Math, Finance, Astronomy, Travel, Economics, UX and UI