Matt Prodani

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EDUCATION

New York University   New York, NY | May 2024
B.A. COMPUTER SCIENCE AND DATA SCIENCE, MINOR IN ECONOMICS GPA:3.6/4.0

EXPERIENCE

COMPUTER SCIENCE AT PEDDIE SCHOOL | COORDINATOR   Hightstown, NJ | Sep 2019 – May 2021

- Developed a textbook exchange website for students while coordinating a team of programmers
- Participated and led school team of four in hackathons
- Part of CS tutoring team

MAX ROSE FOR CONGRESS | PART-TIME VOLUNTEER   New York, NY | Jun 2020 - Aug 2020

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

PROJECTS

PAINTINGGAN ↗   PYTHON, PYTORCH, OPENCV, NUMPY, HTML, CSS, DATA ANALYSIS

- 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
- Developed a website to showcase generated images as well as a Colab document to recreate

IOT PAINTING   C++, ARDUINO, WEBHOOKS, JSON API

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

PEDDIE COMMUNITY BOARD ↗   PYTHON, NODEJS, MYSQL, HEROKU, DJANGO

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

MANAGEBAC MOBILE   JAVA FOR ANDROID, JSON

- Built a Java based Android app for my school's grade management system in 8th grade
- Utilized Python and HTML requests to build a custom JSON API that parses data from the gradebook.

CONTEXT QUIZ ↗   HTML, CSS, P5.JS, FIREBASE

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

RELEVANT COURSEWORK

Computer Science: AP Computer Science, Data Structures and Algorithms, Computer Systems Organization, Intro to Machine Learning, Intro to Data Science with Pandas and Numpy, Advanced CS Seminar
Math: Discrete Mathematics, Linear Algebra, Multivariable Calculus

SKILLS

Technologies: Java, JavaScript, Python, R, C++, HTML, CSS, C, OOP, Git, MongoDB, LaTeX, Italian, Albanian