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

EXPERIENCE

SYMEND | Incoming Software Engineer Intern — Denver, CO | May 2022 - Aug 2022

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

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.

JPMORGAN CHASE DATA FOR GOOD HACKATHON — Python, R, Pandas, Numpy, Excel

- Worked with a team of six during a 24-hour hackathon in Plano, TX.
- Processed datasets containing agricultural data to analyze and run through models.
- Created multivariate binomial regression models to find ways to source agriculture while maximizing social good.
- Developed a demo GUI that quantifies environmental and social benefit through a score for agricultural portfolios.

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