

# Matt Prodani

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## EDUCATION

### New York University

B.A. COMPUTER SCIENCE AND DATA SCIENCE, MINOR IN ECONOMICS

New York, NY | May 2024

## EXPERIENCE

### SYMEND | INCOMING SOFTWARE ENGINEER INTERN

Denver, CO | May 2022 - Aug 2022

### COMPUTER SCIENCE AT PEDDIE SCHOOL | COORDINATOR

Hightstown, NJ | Sep 2019 - May 2021

- Worked with a team of ~10 programmers to develop a textbook exchange website while coordinating tasks and managing hosting
- Competed in the HackHSN hackathon in a team of four
- 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

### JPMORGAN CHASE DATA FOR GOOD HACKATHON

PYTHON, R, PANDAS, EXCEL, SCIKIT-LEARN

- 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 model using environmental impact as a cost function to find a way to maximize social good while minimizing environmental impact
- Developed a demo GUI that quantifies environmental and social benefit through a score for agricultural portfolios using our models.

### 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.

## 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, Natural Language Processing

**Math:** Discrete Mathematics, Linear Algebra, Multivariable Calculus

## SKILLS

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