

MATT PRODANI

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EDUCATION

New York University - Courant Institute of Mathematical Sciences
B.A. Computer Science and Data Science

New York, NY
May 2024

WORK EXPERIENCE

Symend

Software Engineer Summer Intern

Denver, CO
May 2022 - Aug 2022

- Designed part of a custom Transformer ML model using TensorFlow
- Analyzed large datasets to build data pipelines using SQL and Python
- Optimized a processing function to run in under a minute from 15 minutes
- Implemented changes to a model system to allow twice as many customers to be compatible

PROJECTS AND COMPETITIONS

FolioWatch *Python, Pandas, BeautifulSoup*

github.com/mattprodani/FolioWatch

A Python model that takes my portfolio holdings and scrapes websites for market data to create a PDF or HTML report every morning. Built with a custom API to authenticate and access Schwab holdings data as well as other data sources.

DocuCloud *Swift, JavaScript, Firebase, React*

A full-stack encrypted document storage platform with a web app and mobile app. Using iOS document recognition libraries and image scanning, with Firebase authentication and data encryption to ensure security.

PaintingGAN *Python, PyTorch, OpenCV, HTML*

mattprodani.github.io/talentless-artist/

A generative model using PyTorch and the StyleGAN library that generates Van Gogh style paintings after being trained on a dataset of about 15,000 paintings and specialized on the artist. An example generation is developed in the website or through the Colab.

IoT Painting *C++, Arduino, WebHooks, JSON API*

A personal project where I wired an Arduino microcontroller to a painting with electrical paint, programmed to connect to Wi-Fi and change light colors based on the part of the painting tapped through voltage sensing.

Peddie Board *Python, Django, MySQL, Heroku*

github.com/rohannunu/PeddieCommunityBoard2.0

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

JPMorgan Data For Good *Python, R, Pandas, Scikit-Learn, Excel*

A 24-hour hackathon at the JPMorgan office in Plano, TX. Our team of six developed a model to find ways to source agriculture with the best possible social impact. I built a multivariate binomial regression to maximize social good, while minimizing environmental impact. Developed a Demo GUI to quantify and visualize the model.

COURSEWORK

CS: Data Structures and Algorithms, Computer Systems Organization, Intro to ML
Intro to Data Science, Natural Language Processing, AP Computer Science

Math: Discrete Mathematics, Linear Algebra, Multivariable Calculus, Probability and Statistics

SKILLS

Technologies: Java, JavaScript, Python, R, C++, HTML, OOP, SQL, Git, LaTeX, Agile, Azure