

VARUN ARAVAPALLI

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EDUCATION

New York University, Tandon School of Engineering

May 2024

B.S Computer Science, Math

Coursework: Algorithms (Graduate), Blockchain and DLT, Operating Systems, Databases, Data Science II, C++, Java

Organizations: NYU Blockchain and Fintech (Senior Advisor, Prev. VP of DEV), NYU Data Science Club, NYU Future Labs

WORK EXPERIENCE

Balyasny Asset Management | Investment Data Analyst Summer Associate

May 2024 - Aug 2024

- Incoming Summer 2024 (**Data Intelligence Group**)

Barclays | Software Engineering Intern

Jun 2023 - Aug 2023

- Developed an advanced **Python** script utilizing **Pandas**, and **SQLAlchemy** to optimize equities CASH desk information request queries and integrated real-time day orders via RESTful APIs to increase efficiency by 7%.
- Identified and addressed critical issues pertaining to **canceled order slices reverting to the trading desk**; leveraged **Kibana** and Python for data-driven actionable insights for 3 Financial Exchanges.

Numina | Data Science Intern

Jan 2023 - May 2023

- Built a Python based data ingestion service that continuously pulls an **AWS s3** instance to convert a real time image stream to multiple 1-min video sequences used for prediction and analysis
- Developed a **computer vision tool** to perform entity detection of a real time video of traffic camera footage in NYC, and compiled and analyzed accuracy statistics of over 500 video sequences using **pandas** and **geopandas**

Highlyte AI | Data Science Intern

May 2022 - Aug 2022

- Developed a novel **YOLOv5-based object detection system** for product platform “Highlyte” to detect whether images, videos and captions are compliant with cannabis advertising regulations
- Built a deep **CNN image classifier** to increase image detection accuracy for at-risk images, with a test mAP@0.5 of 76% with no false positives

RESEARCH & LEADERSHIP EXPERIENCE

Blockchain Research | Undergraduate Researcher

Jan 2024 - Present

- Conducting in-depth analysis and synthesis of prevailing **Consensus Mechanisms** within blockchain technology supervised by Professor Ayesha Kiani.

Computational Geometry Research | Undergraduate Researcher

Aug 2023 - Jan 2024

- Analyze the **Optimal Slope Selection** Problem supervised by Professor Boris Aronov in Computational Geometry
- Created a literature survey to trace the development of the optimal algorithm and variants by comparing pertinent research papers, create a brief survey of results and **visualization** for the most optimal versions of the algorithm

NYU Blockchain and Fintech | VP of Development

Apr 2023 - Present

- Led a team of 10 to create an **Poker dApp** leveraging Coinbase **Base L2** chain. Allows players to stake **USDC** for buy-ins, using **state channels** and **client-side shuffling** for a nearly server-less poker experience
- Designed and launched an NFT collection leveraging DALL-E and deployed on Polygon Mainnet, coupled with an ERC-20 token to establish a fully operational DAO for NYU Blockchain.

New York University | CS-2413 (Design and Development of Algorithms) Teaching Assistant Jan 2024 - Present

- Conducted weekly office hours, graded assignments and exams and worked with professor to adjust course material

SKILLS

Languages | Python, C/C++, SQL, JavaScript, HTML, CSS, R, Solidity, Bash

Tools | AWS, RestAPIs, Kibana, Jira, Confluence, Linux/UNIX Scripting, Git, MySQL, Docker, Kubernetes

Frameworks | pandas, NumPy, matplotlib, SKLearn, TensorFlow, PyTest, Flask, SQLAlchemy, Truffle, web3.js, next.js

Interests | Poker, Board Games, Basketball, Tennis, E-Sports, Dogs