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### Education

New York University

August 2019 - May 2022

B.S IN COMPUTER SCIENCE | SCHOOL OF ENGINEERING, COURANT INSTITUTE OF MATHEMATICAL SCIENCES MINORS: GAME ENGINEERING, FINANCIAL RISK ENGINEERING, SUSTAINABLE URBAN ENVIRONMENTS, APPLIED MATHEMATICS

ACRONYMS/KEY WORDS OF IMPORTANCE

• OOP, C++, ML, OpenGL, Flask, PyFi, NumPy, Pandas

## Experience\_

MerQube Inc.

New York, NY

FINANCIAL ENGINEER

June 2022 - Present

- Developed, tested, reconciled, and launched custom indices for major investment banks and asset managers around the globe
- · Optimized calculations and data queries in order to deliver index levels and weights to vendors including Bloomberg, Nasdaq, and Morningstar
- · Interfaced directly with clients to produce real time and end of day indices for ETNs, ETFs, and FIAs will billions of USD AUM
- · Used technologies including AWS, Airflow, Pandas, and proprietary APIs to produce automated index calculations and reports
- · Contributed to internal libraries/APIs to facilitate mathematical computations, and maintain a distributed database of financial data

Daimler-Benz U.S.A Group

Brooklyn, NY

SOFTWARE ENGINEER, SCRUM MASTER

February 2022 - May 2022

- Partnered with Daimler through the NYU Vertically Integrated Project Commission
- · Lead Sprints with a team of 6 student engineers using traditional Agile and Scrum Development practice
- · Collaborate with Daimler staff on campus on deliverable product for the electric semi-truck control systems API and GUI

GCOM Software New York, NY

PRODUCT INTERN June 2021 - August 2021

- · Designed full architecture for the Vital Records Platform's transition to a SaaS model from previously delivered product for New York City
- · Selected and implemented numerous public indicators and parameters for the Community Health Management platform with BigQuery, R
- · Utilized Microsoft Visio, Axure, Adobe XD, and other platforms to design finalized architecture of Community Health Management Platform

#### **Davinci Market Systems LLC**

Key West, FL

Co-Founder, Quantitative Researcher

January 2021 - July 2021

- Co-Founded Davinci Market Systems, a financial service LLC servicing 3,100 active clients
- · Build models and price forecasts on U.S equities, options, and ETFs using SKLearn and Discord's Python API
- Engineered web hooks to call out specific stocks and options using various indicators and APIs (.88 profitability rate)
- · Customize and build retail options strategies for users to incorporate in personal portfolios and algorithmic trading libraries
- · Organize seminars and 1-on-1 tutoring with clients on market concepts, quantitative theory and career development in trading and finance

Novus Partners New York, NY

SOFTWARE ENGINEERING INTERN

July 2020 - December 2020

- Automated weekly reports and customized portfolio indicators for hedge funds, investment managers, and other financial institutions.
- Engineered a flask based ETL Protocol for secure transfer of private client data between SFTPs and Amazon Simple Storage Service (S3)
- Tested and debugged releases and support tickets to the live Alpha platform with the Engineering and Data Analytics teams

# **Extracurricular Activity**

NYU NCAA Fencing

New York, NY

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ATHLETE August 2019 - Present

- Fence in 7 yearly meets throughout the Division 1 season under coach Ben Bratton, OLY
- Practice 20 hours a week on and off campus at Fencer's Club Inc.
- Founded the 'Tandon Athletic Collective', building community amongst engineering athletes

#### Math Finance Group | NYU Courant Institute of Math and Sciences

New York, NY

PRESIDENT, FORMER HEAD OF QUANTITATIVE TRADING

E TRADING October 2020 - May 2022

- · Recruit a selective team each year to participate in 5 yearly quantitative trading and engineering competitions a year
- · Develop Trading Team Curriculum, covering content in machine learning, mathematical finance, and derivatives trading
- Delegate weekly open meetings and events, including networking sessions, guest speakers, and quantitative trading and research workshops
- Spoken Languages: Illinois State Seal of Biliteracy in Spanish | Native fluency in Gujarati
- Other Experiences and interests: Stand-up Comedy, Society of Asian Scientists and Engineers, Scouting (Eagle Scout, NEIC), Sustainability
- · Hobbies: Jazz music, Public Policy and Civics, Analog Photography, Diabolo Performance, Hiking, Canoeing, Camping

AUGUST 19, 2022 NEAL P. PATEL · RÉSUMÉ