

# Neal Patel

COMPUTER SCIENCE · NCAA ATHLETE

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## Education

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### New York University

August 2019 - May 2022

B.S IN COMPUTER SCIENCE, TANDON SCHOOL OF ENGINEERING

MINORS: MATHEMATICS, GAME ENGINEERING, FINANCIAL RISK ENGINEERING, SUSTAINABLE URBAN ENVIRONMENTS

#### NOTABLE COURSEWORK AND SKILLS

- Object Oriented Programming, Design and Analysis of Algorithms, Advanced Linear Algebra, Stochastic Calculus
- Python (Flask, SKLearn, Pandas, NumPy, PyFi), C++ (OpenGL), Scala, CoffeeScript, SQL

## Experience

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### 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

### 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

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

New York, NY

PRESIDENT, FORMER HEAD OF QUANTITATIVE TRADING

October 2020 - Present

- 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
- Organize research teams, using publications from the Dept. of Math Finance and Financial Engineering and backtest
- Delegate weekly open meetings and events, including networking sessions, guest speakers, and quantitative trading and research workshops

### South Asian Americans in Public Service

Cambridge, MA

SUMMER FELLOW

May 2020 - July 2020

- Participated in 10 week fellowship focused on South Asian American students involvement in government
- Began project for online database using SQL for South Asian civic outreach and networking

## Extracurricular Activity

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### NYU NCAA Fencing

New York, NY

ATHLETE

Aug 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

### NYU Model United Nations

New York, NY

DEPUTY HEAD DELEGATE

Sep. 2019 - Present

- Earned awards at Yale, University of Pennsylvania, and collegiate Model United Nations conferences across the U.S
- Staff conferences for students in Chicago, New York, and Mexico City
- Organize recruitment, training, and events for the NYU Travel Team

### NYU "Memes for Slightly Bankrupt Teens"/Overheard at NYU

New York, NY

MODERATOR | INSTAGRAM.COM/NYUMFSBT | FB.COM/GROUPS/NYUMEMES

March 2020 - Present

- Moderate NYUMFSBT on Facebook and Instagram, with 18,800 followers and group members, the largest recorded NYU student following.
- Correspond with Student Groups and administrative bodies to push information, events, and announcements to the NYU community
- Started CS @ NYU, a discord server hosting students, faculty, and alumni between all 4 of NYU's campuses throughout the world of 2,000.

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- **Spoken Languages:** Illinois State Seal of Bilingualism in Spanish || Native fluency in Gujarati, American English
  - **Other Experiences and interests:** Stand-up Comedy, OSIRIS Cybersecurity Lab (CTF), Society of Asian Scientists and Engineers, Scouting (Eagle Scout NEIC), Sustainability, eSports
  - **Hobbies:** Jazz, Policy, Analog Photography, Diabolo Performance, Hiking, Canoeing, Camping