Neal Patel

COMPUTER SCIENCE · NCAA ATHLETE

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Education

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, ML for Quantitative Finance
- Python (Flask, SKLearn, Pandas, NumPy, PyFi), C++ (OpenGL), Scala, CoffeeScript, SQL

Experience

Daimler-Benz U.S.A Group   *Brooklyn, NY*

SOFTWARE ENGINEER, SCRUM MASTER   *February 2022 - Present*

- 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

Waffler.org   *Brooklyn, NY*

QUANTITATIVE RESEARCH ASSISTANT   *February 2022 - Present*

- Collect public information on crypto currency activity as it relates to the video game industry
- Model growth information and patterns in blockchain in gaming using python, including libraries like pandas, matplotlib
- Guest Lectured at the NYU Stern School of Business about blockchain, American Retail, and Engineering in the games industry

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*

- Assisted in building Automated weekly reports and customized portfolio indicators for hedge funds, investment managers, and other financial institutions.
- Worked with a team to engineer a flask based ETL Protocol for secure transfer of private client data between SFTPs and Amazon S3
- Tested and triaged releases and support tickets to the live Alpha platform with the Engineering and Data Analytics teams

Extracurricular Activity

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

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

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.

- **Spoken Languages:** Illinois State Seal of Biliteracy 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