

Rohan Malhotra

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EDUCATION

New York University, Courant Institute

B.S. in Mathematics and Computer Science

New York, NY

Sep 2025 – May 2027

- Combined GPA: 3.75/4.00

- Awards: AAAS National Scholar, Presidents List 2x, Deans List 2x

- Coursework: Data Structures and Algorithms, Operating Systems, Calculus 1-3, Linear Algebra, Statistics & Probability

Virginia Tech, College of Engineering

B.S. in Computer Engineering

Blacksburg, VA

Transferred May 2025

TECHNICAL SKILLS

- Actuary CAS Tests: Exam P (Sept 2025), Exam FM (Oct 2025)
- Programming Languages: Python, Java, SQL, C/C++, R, HTML/CSS, MATLAB, JavaScript, Swift
- Frameworks/Libraries: Pandas, NumPy, Matplotlib, Pytorch, Node.js/Next.js, React, Flask, Seaborn, Rest APIs, Websockets
- Tools/Technologies: Excel, Visual Basic, Git, GitHub, Linux, LaTeX
- Interests: Pickup Basketball, Golf, Weightlifting, Cooking, Lambda Chi Alpha, Robotics & Controls

PROFESSIONAL EXPERIENCES

Aress Software

New York, NY

Machine Learning Intern

Jun 2025 – Aug 2025

- Collaborated on LASSO and Ridge Regression prototypes in Python (PyTorch) to forecast IT-support incident resolution times, with pilot results indicating a 15% projected improvement in SLA compliance.
- Developed interactive Excel dashboards for real-time reporting of service metrics
- Model performance, enabling operations for teams to make data-driven prioritization decisions.

Y-Axis Overseas Careers

Chatham, NJ

Data Engineering Intern

May 2024 – Aug 2024

- Cleaned and normalized SQL data on client profiles and visa-application records to feed predictive models forecasting approval rates and processing timelines, reducing data-preparation time by 15%.
- Built Excel dashboards visualizing forecasted metrics and translated findings into clear, actionable recommendations for non-technical stakeholders.

Hume Center for National Security and Technology

Blacksburg, VA

Aerospace Research Assistant

Oct 2024 – May 2025

- Collaborated with a multidisciplinary team to research imaging & signal-processing techniques for coral reef health.
- Co-authored a NASA CubeSat Launch Initiative proposal, coordinating requirements with stakeholders and integrating autonomous imaging systems.

LEADERSHIP & PROJECTS

PIVOT | ytpivot.org

Blacksburg, VA

Co-President & Lead Software Engineer

Feb 2024 – Present

- Lead a national physics organization, across multiple universities across the country.
- Manage and compete with my peers in competitions and projects related to physics, math, and computer science.
- Mentor members in advanced programming and quantitative methods, fostering collaboration across physics, finance, and CS.
- Oversee algorithm integration to apply physics-driven computational methods to engineering and financial challenges

Refrax | refrax.io

New York, NY

Founder

Jan 2025 – Present

- Built an interactive platform uniting computer science, finance, and physics to explore quantitative methods.
- Developed 3D visualizations of stock data with equation rendering and support for custom datasets using AI.
- Implemented animated modules to illustrate complex models and enhance engagement

Reddit Data in Quantitative Financial Models | hdl.handle.net/10919/124871

New York, NY

Co-author

Published: Aug 2025

- Co-authored a published paper analyzing Reddit posts on r/wallstreetbets and correlating sentiment to price movements.
- Examined the relationship between online sentiment spikes and market volatility for predictive modeling use.
- Implemented natural language processing and regression models in Python to quantify sentiment impact on equity returns.

Green Sticker | greensticker.us

New York, NY

Founder

Aug 2025 – Present

- Engineered a Python + OpenCV system that tracks a user-defined green sticker to control the cursor.
- Provides an intuitive accessibility solution for hands-free computer interaction; specialized for students with disabilities