Giovanni Vitale

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EDUCATION

Stony Brook University   Expected May 2027
Bachelor of Science in Computer Science and Applied Mathematics and Statistics   *New York, NY*
- **Cumulative GPA:** 3.97/4.0
- **Relevant Coursework:** OOP, Discrete Math, Data Structures, Analysis of Algorithms, Principles of Programming Languages, and Data Analysis

EXPERIENCE

Quantitative Researcher Intern   May 2025 – Present
Acadia Analytics   *New York City, NY*
- Developed and implemented quantitative models, generating alpha signals through statistical arbitrage strategies that increased portfolio returns by over **11%** over 12 months
- Mentoring junior analysts, implementing improved education and workflows for data analysis and backtesting that increased research efficiency by **40%**
- Collaborating with portfolio managers to discuss future implementations and optimizations

Private Tutor   Jun 2022 – Present
West Palm Test Prep   *New York City, NY*
- Teach math classes of 20+ students, to prepare them for competitive exams, including the SHSAT, Hunter Entrance exam, and AMC exam
- Provide 1 on 1 SAT tutoring, leading to an average score improvement of 250+ points per student through tailored test-taking strategies and targeted practice

PROJECTS

Bionic Reading | *JavaScript, HTML, CSS, JSON, Chrome Extension APIs, DOM Manipulation*   Feb 2025
- Developed a Chrome extension to enhance digital reading accessibility for individuals with dyslexia and ADHD
- Implemented Bionic Reading Mode via a JavaScript-driven Chrome Extension, dynamically bolding word segments to improve reading focus and accelerate reading speed by over **15%**
- Optimized DOM manipulation for real-time text transformation without disrupting page layout

Black-Scholes Options Pricing Calculator | *Python, Numpy, Streamlit, Math*   Sep 2023
- Built and deployed an interactive financial analysis web application on Streamlit, enhancing user accessibility and real-time insights
- Developed and implemented a Python-based interactive tool to provide theoretical option prices, integrating essential financial metrics for comprehensive market analysis

Momentum Trading Strategy | *Pine Script, SMA, EMA, Trading View*   May 2021
- Sold access to this strategy to traders which generated $50k in revenue
- Engineering a trading algorithm employing a dual-smoothed range filter algorithm, combining exponential moving averages and weighted averages to adjust to market volatility, reducing noise
- Created an automated signal system to identify entry and exit points based on price dynamics combined with the use of Bollinger bands

AWARDS

- Top 5% Nationally (AIME Qualifier) - American Mathematics Competition Certificate of Distinction
- 5th Place Individual - Fall '23 NYC Interscholastic Math League
- Perfect Score - Harvard CS50X Puzzle Day '24 & '25
- Hackathon Winner - Stony Brook University 10th Annual Hackathon
- Datathon Winner (Financial Analysis Track) - Stony Brook University Datathon

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, HTML/CSS, R

Other: Rank 1 Tank player in Overwatch (Blizzard Entertainment, May 2022), consistently ranked among the Top 10 North American players for 10 seasons in a competitive, team-based strategy game.