

Chase C. Vitale

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EDUCATION

New York University - New York, New York

Sept 2023 - May 2027

- B.A., Computer Science and Mathematics; GPA: 3.95
- Awards: Dean's List (2023-2024 Academic Year)
- Relevant Coursework: Computer Systems Organization, Data Structures, Linear Algebra, Calculus III, Discrete Mathematics

Northern Highlands Regional High School - Allendale, New Jersey

Sept 2019 - June 2023

- Awards: Salutatorian (2023); High Honor Roll (2019-2023); Spanish Award (2023); AP Scholar with Distinction (2023)
- Extracurriculars: Spanish Club (President); Environmental Awareness Club; Boomerang Project; Highlands Heroes

TECHNICAL SKILLS

Languages: Java, Python, C, JavaScript

Tools: React, React Native, Node.js, Git, Google Firebase, Expo, Xcode, CSS, Microsoft Office

WORK EXPERIENCE

Researcher: NYU Holodeck: High-Speed Research Network - New York, New York

Jan 2025 - Present

- Built Python benchmarking tools for UDP, TCP, and WebSocket protocols with configurable settings to test various cases
- Identified and reported a critical TCP data-loss bug at high payload sizes, leading to a confirmed fix by the team lead
- Authored extensive benchmarking reports, with analysis and recommendations for next steps in protocol optimization

Grader: USA Mathematical Talent Search - New York, New York

Oct 2024 - Feb 2025

- Graded 50 submissions per session for a mathematics competition for U.S. middle and high school students
- Participated with a team of 10 graders to uphold grading standards, ensuring fairness and accuracy across evaluations
- Contributed to a program sponsored by the National Security Agency to develop childhood mathematical interest

Grader: NYU Courant Institute of Mathematical Sciences - New York, New York

Sept 2024 - Dec 2024

- Assessed 59 Discrete Mathematics student assignments weekly, delivering precise, supportive feedback on math concepts
- Resolved student grade disputes in a timely manner, ensuring final marks accurately reflected student performance
- Coordinated weekly with instructors to discuss common challenges, student progress, and academic integrity violations

Clinician: Lindamood-Bell Learning Processes - Morristown, New Jersey

May 2024 - Aug 2024

- Provided one-on-one support for up to eight students per shift, adapting lesson plans to meet specific learning needs
- Enhanced students' reading comprehension and decoding skills by multiple grade levels through individualized lessons
- Established a caring environment for neurodivergent students, incentivizing student engagement for ages five through 26

PROJECTS

places2be (Full Stack Developer) - JavaScript, React Native, Node.js, Xcode, Expo, Google Firebase

Oct 2024 - Feb 2025

- Developed an NYU-focused social media application enabling community members to share and review local study spots
- Created eight front-end pages with JavaScript and React Native, ensuring a seamless user experience
- Implemented user authentication with Google Firebase to ensure secure sign-ins and synchronized reviews across accounts

ACTIVITIES

Member: NYU Class Activities Board - New York, New York

Jan 2024 - Present

- Coordinating logistics and outreach for campus events, ensuring smooth execution and high student engagement
- Assisting a diverse team to brainstorm and implement creative event ideas, fostering a strong sense of community

Member: Tech@NYU - New York, New York

Sept 2024 - Present

- Collaborating with tech-oriented NYU students to gain industry insight and develop more comprehensive technical skills
- Created a tech project during the Fall 2024 semester as one of only 13 students selected for the Tech Treks program

Director of Communications: Greenwich Undergraduate Advisory Council - New York, New York

Sept 2024 - May 2025

- Led publicity efforts for up to 10 hall council events per month, increasing student engagement and attendance
- Worked with hall council members to reach diverse subgroups within the residence hall, enhancing event participation

Scholar: New Jersey Scholars Program - Lawrenceville, New Jersey

July 2022 - July 2022

- Attended daily seminars with 38 other New Jersey high school students selected for the six-week summer program
- Researched 'leapfrogging' in the Global South, analyzing rapid technological advancements in emerging markets
- Compared the financial and social implications of the Global North's development to that of the Global South