CHASE C. VITALE

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EDUCATION

New York University | **Expected May 2027**

Bachelor of Arts: Computer Science and Mathematics | Dean's List (All Academic Years) | GPA: 3.84/4.0

Relevant Coursework: Operating Systems, Computer Systems Organization, Data Structures, Linear Algebra, Abstract Algebra, Real Analysis, Discrete Mathematics, Introduction to Cryptography

EXPERIENCE

Eagor Inc. | New York, NY | *Software Engineering Intern* | **July 2025 - Present**

- Collaborate with 3 founding team members to deliver 7+ weekly full-stack updates, accelerating the development of a productivity-focused application and demonstrating product viability to early-stage investors
- Manage Firebase backend by implementing automatic calendar event sync with local cache overwrite
- Develop UX and UI elements, like in-app notifications with undo functionalities, access to task-specific video tutorials, and overall design features to improve experience for 100+ daily users

NYU High Speed Research Network | New York, NY | *Researcher* | **Jan. 2025 - May 2025**

- Programmed two configurable Python benchmarking tools to measure data transfer performance and ensure a bidirectional communication channel between users
- Analyzed data transmission protocols through benchmarking reports, discovering a TCP data transfer limit of 5,000 bytes, leading to a confirmed fix by the team lead to increase data throughput

USA Mathematical Talent Search | New York, NY | *Grader* | **Oct. 2024 - Feb. 2025**

- Graded and provided feedback on 1,500+ proofs for a mathematics competition aimed at increasing interest in quantitative fields and developing logic and reasoning skills for U.S. middle and high school students
- Collaborated with a team of 10 graders to improve efficiency and maintain consistent grading practices

TECHNICAL PROJECTS

SwipeBeats Python Game | *Independent Project* | **July 2025**

- Developed a Python application with the Spotify Web API and Pygame to create a swiper-style playlist maker
- Implemented OAuth authentication, real-time audio streaming, and a dynamic UI based on album artwork

places2be Mobile Application | *Collaborative Project* | **Feb. 2025**

- Developed a working demo of a mobile application over four months with no prior JavaScript experience
- Created 8 front-end pages with JavaScript and React Native to match Figma design outlines
- Integrated the Google Firebase API to ensure secure sign-ins and synchronized reviews across accounts

LEADERSHIP & COMMUNITY ENGAGEMENT

Tech@NYU | New York, NY | *Member* | **Sept. 2024 - Present**

- Actively participate in tech-related networking events and workshops to strengthen technical skills, gain insights on current trends, and build valuable relationships with seasoned industry professionals

Greenwich Undergraduate Advisory Council | New York, NY | *Director of Comms.* | **Oct. 2024 - May 2025**

- Led publicity efforts for up to 10 hall council events per month, increasing student engagement and attendance
- Worked with members to efficiently manage $7,000, eliminating waste and investing in building amenities

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, C, Swift, HTML/CSS

Frameworks/Tools: React, React Native, Node.js, Clinic.js Doctor, Firebase, Pygame, Git