

# 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, Data Structures, Linear Algebra, Discrete Mathematics, Complex Algebra

## EXPERIENCE

### Eagor Inc. | New York, NY | *Software Engineering Intern*

July 2025 - Oct. 2025

- Collaborated with 3 founders to ship 7+ weekly features, accelerating product development for investor demos
- Managed Firebase backend by implementing automatic Google calendar event sync with a local cache overwrite
- Developed SwiftUI features including toasts and video tutorials to improve app experience for 100+ daily users

### NYU High Speed Research Network | New York, NY | *Researcher*

Jan. 2025 - May 2025

- Created Python benchmarking suite to test TCP/UDP/WebSocket performance across multiple configurations
- Identified Remote TCP data limit of 5,000 bytes, enabling fix that improved capacity by 1,200% to 65,000 bytes
- Discovered a TCP multi-sender limit of one sender and informed NYU researchers on data transfer constraints

### NYU Courant Institute of Mathematical Sciences | New York, NY | *Grader*

Sept. 2025 - Present

- Provide feedback on 100 C programming assignments per month to improve students' core programming skills
- Evaluate student code for efficiency and memory safety to ensure comprehensive adherence to C best practices
- Review submissions for plagiarism and AI usage, promoting honest coding practices among student developers

### USA Mathematical Talent Search | New York, NY | *Grader*

Oct. 2024 - Present

- Assess 1,500+ proofs per year for AIME qualifier, identifying top talent among American high school students
- Advance program's mission to develop next generation of STEM leaders through constructive proof feedback
- Partner with a grading team of 10 to standardize rubrics and maintain evaluation quality across all submissions

## TECHNICAL PROJECTS

### Places2Be | JavaScript, React Native

Feb. 2025

- Cooperated with team of 4 to complete NYU social discovery app using React Native and Firebase in 4 months
- Programmed 8 responsive front-end pages using React Native to implement pixel-perfect Figma design outlines
- Configured Google Firebase backend for secure account authentication and realtime comment synchronization

### SwipeBeats | Python

July 2025

- Designed Python program to group users' liked Spotify songs by genre, to improve platform's filtering features
- Gamified playlist creation with swipe-based interface, enabling users to process 100+ songs in under 5 minutes
- Integrated Spotify API with OAuth and real-time audio streaming to enable seamless playlist creation workflow

## LEADERSHIP & COMMUNITY ENGAGEMENT

### Tech@NYU | New York, NY | *Member*

Sept. 2024 - Present

- Ranked first at the Fall 2024 Project Showcase by club team lead for Places2Be mobile application development
- Engage with networking events to stay current with the tech industry's trends and expand professional network

### 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
- Managed \$7,000 hall council budget, eliminating wasteful spending and reallocating funds to resident amenities
- Developed communications skills through NYU outreach events to better engage diverse student organizations

## TECHNICAL SKILLS

**Languages:** Python, JavaScript, SwiftUI, C, C++, Java, HTML/CSS

**Frameworks/Tools:** React, React Native, Node.js, Firebase, Git, Xcode, LaTeX, Pygame