Emma Ni

Belle Mead, NJ • (908) 208-4151 • en257@cornell.edu

EDUCATION

Cornell University, College of Arts & Sciences, Ithaca, NY   Bachelor of Arts Expected May 2025
Intended Major: Computer Science; Intended Minor: Business • GPA: 4.14 • Dean's List 2/2 semesters

Montgomery High School, Montgomery, NJ   Sept 2017 – June 2021
GPA: 100.1071 • SAT: 1560 • SAT Math II: 800 • SAT Chemistry: 800
Awards and Honors: Valedictorian • United States President's Award for Educational Excellence • National Merit Scholarship Commended Student • National Honor Society • AP Scholar with Distinction • Principal's Honor Roll (9th-12th) • NJ State Seal of Biliteracy in Spanish

KEY COURSES

- Fall '22 Courses: Data Structures & Functional Programming • Discrete Structures • Probability • Marketing Principles
- Completed Courses: Object-Oriented Programming and Data Structures • Linear Algebra • Introduction to Computing Using Python • Introductory Statistics • Financial Accounting

TECHNICAL EXPERIENCE

Design and Operations, Cornell University Unmanned Air Systems (CUAir)   October 2021 – Present
- Member of project team that designs and builds a custom unmanned aerial system capable of waypoint navigation, image processing, air delivery, and target recognition to compete in an international collegiate competition
- Authored and designed first edition of a bi-annual newsletter to establish stronger connections with sponsors (Figma)
- Currently developing new internal recruitment portal to streamline the member recruitment process by centralizing tasks, organizing information, and implementing an intuitive design (Figma, HTML, CSS, JS, React)
- Updating existing code for CUAir website to reflect latest competition results and team member changes

Technical Project: Personal Website   Summer 2022
- Created a website hosted on GitHub Pages to share technical progress and professional/personal growth
- Utilized Figma for wireframing and designing custom vector images; coded in HTML, CSS, and JS

Technical Project: Google Drive API Python Script   July 2, 2022
- Developed script to autonomously search for and download a large number of files from Google Drive account

Human Performance Hackathon, NYC   June 10, 2022 – June 12, 2022
Leader and App Designer for Team *Dr. Chef*
- Led team discussions to develop business plan and identify key features for our product *Dr. Chef*: an app providing flexible nutrition plans tailored to an individual's medical needs
- Aligned team vision, established key deliverables, and assigned roles and responsibilities to team members
- Wireframed and designed a Figma prototype to demonstrate our app's interface and functionality for our business pitch
- Won $500 prize based on guest mentors' votes

KEY LEADERSHIP EXPERIENCE

Vice President: Interact Community Service Club   Sept 2017 – June 2021
- Collaborated with local organizations to identify opportunities for Interact to participate in and contribute to charitable events that help local, regional, and international communities
- Managed club operations and addressed concerns from the general body to ensure smooth running of the club and equal opportunities for all members

Team Captain: Montgomery High School Varsity Fencing Team   Sept 2017 – June 2021
- Led team practices and coached teammates in physical, mental, and emotional aspects of fencing, leading to dominant performances as the top women's high school fencing team in NJ
- Awards & Accomplishments: *MVP, NJ State Squad Champions, NJ State Individual Silver, Freshman of the Year*

SKILLS, TALENTS & INTERESTS

- Python • Java • Figma • HTML • CSS • JavaScript
- NCAA Division I Cornell Varsity Fencing (received Outstanding Scholar Athlete Award)
- Piano (9 years of formal instruction, won High Honors at competitions, played recitals at Carnegie Hall)
- Art (pencil, watercolor, acrylic, gouache; 7 years of formal instruction)