

Ananya Tyagi

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EDUCATION

New Jersey Institute of Technology

Bachelor of Science, Computer Science

Expected Graduation: 2026

Albert Dorman Honors College – **Full tuition merit scholarship** – Dean's List

Relevant Coursework: *Introduction to Machine Learning, Introduction to Data Science, Programming Language Concepts, Principals of Operating Systems, Foundations of Computer Science I, Data structures and algorithms, Internet Applications, Linear Algebra, Calculus-Based Probability and Statistics*

WORK EXPERIENCE

AI Product Development Intern | *Aersys Inc.*

May 2024 – August 2024

- As Project Lead, led the startup team in formulating, developing, and launching a product complementary to Aersys' offerings, resulting in a diversified product portfolio for current and future investors by leveraging **OpenAI API, AWS, Github**, and product management tools.
- Strengthened startup and emphasized profitability through the implementation of essential business building blocks such as Business Model Canvases, Customer Discovery, **Financial Statements**, Cap Tables, Pitch Presentations, **LEAN methodologies**, and more.
- Negotiated a high valuation from the venture capitalist team and leveraged team expertise, competitor benchmarking, and negotiation techniques to secure a substantial share of equity in my venture.

Secretary | *Association of Computing Machinery: NJIT Chapter*

November 2023 – present

- Increased funding by **5%** and boosted sponsor retention rate through collaboration with Ying Wu College of Computing administration to secure sponsors from industry leaders like AWS, Google, and CrowdStrike or public events such as Hack NJIT and Jersey CTF.
- Collaborate with ACM Eboard to lead General Body meetings and implement improvements, resulting in boosted attendance, while leveraging Google Workspace for seamless collaboration.
- Host office hours **3+** hours per week to manage the inner workings of the organization and meet with members and administrators.

Undergraduate Research Assistant | *The Social Interaction Lab Network*

January 2024 – April 2024

- Established a user-centered framework for the project website by leveraging WordPress plugins and customizing **HTML/CSS** to enhance user experience.
- Researched and experimented with Google Maps website integrations to implement a unique diary feature into custom maps, providing unique content.
- Employed Google Maps in conjunction with the team to develop a custom map featuring unique markers for significant locations, and incorporation of custom videos and images at key points, contributing to unique content.
- Dedicated **4+** hours per week to team and lab-wide meetings, research, and other associated tasks.

SKILLS

Technical: Java, Python, C/C++, HTML/CSS, PHP, JavaScript, MySQL, NLP software, Bootstrap, Eclipse, Github, Visual Studio Code

Soft: Project Management, Teamwork, Problem Mitigation, Lean & Agile Methodologies, Dynamic Learner

Languages: Spanish, Hindi, and English

PROJECTS

AquaRisk | *Diamond Challenge*

- HackNJIT | With a 4-student team, dedicated 24 hours to conceptualize and create AquaRisk, a nautical-themed risk zones detection solution, utilizing **HTML, CSS, Javascript, GeoCode.Api, CO-OPs API, Github**, and employing the design thinking methodology for efficient task delegation and coordination.

Stars Within Reach | *Innovation for Women, MIT Solve*

- With a 3-student team, conceptualized, designed, researched, and programmed a social innovation app using **React Native, HTML, CSS, and JavaScript**
- Promote free and accessible virtual educational access for women-identifying and LGBTQ+ students in high-need and diverse areas with educators and professionals.

Separation Earth | *Diamond Challenge Business Competition*

- Contributed **50+ hours** with a 4-student team to conceptualize and render products, conduct target market and product research, and craft a comprehensive pitch.
- Designed an autonomous waste-separation device incorporating Infrared, Capacitive, Chemical, and Motion sensors, pioneering the first in-home waste-separation solution.

LEADERSHIP/ORGANIZATIONS

Historian | *Alpha Kappa Psi Professional Co-ed Business Fraternity*

April 2024 – present

Director of Advocacy | *NJIT Honors Hall Council*

September 2023 – May 2024

Programming Committee Chair | *WWP People of Color Advocacy*

December 2020 – May 2023

NOTABLE EXPERIENCE

Pursuing **AWS Certified Machine Learning Specialty Certification**, DeepLearning.AI ChatGPT Prompt Engineering for Developers, HeadstarterAI SWE Fellowship (2024), NJIT Dean's List, Intro to Discrete Mathematics Academic Summer Course