

# Aryan Jain

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## EDUCATION

**Binghamton University, Thomas J. Watson College of Engineering and Applied Science**

Bachelor's of Science in Computer Science | Bachelor's of Arts in Mathematics

Overall GPA: 3.4/4.0

*Expected May 2026*

## SKILLS

**Languages:** English (Native), Hindi (Spoken), Spanish (Elementary)

**Programming:** Python, JavaScript, Java, C++, C, HTML/CSS, LaTeX, GDB, x86 Assembly, TypeScript, REST

**Relevant Coursework:** Operating Systems, Data Structures and Algorithms, Computer Architecture, Complex Analysis, Number Systems, Multivariable Calculus, Linear Algebra

## TECHNICAL EXPERIENCE

**HackBU Hackathon 2024**

**Vestal, NY**

*Participant*

*February 2024*

- Collaborated in a 24-hour hackathon to develop Foodi, a mobile-phone-compatible web app for tracking macronutrients in food
- Utilized React.js for the frontend, Node.js for the backend, and trained a machine learning model to identify common foods
- Awarded 2nd Best Hack among diverse teams including undergraduates, graduates, and Ph.D. students<sup>1</sup>

**Inductive Health**

**Atlanta, GA**

*Software Developer Intern*

*May 2023 - August 2023*

- Led cross-functional teams in developing scalable server-side applications for healthcare informatics
- Ensured data integrity, performance, and security in application databases through comprehensive testing
- Spearheaded automated build and deployment processes (collaborated with DevOps team), enhancing software reliability and integration

**Binghamton Research Immersion Honors Program: Image and Acoustic Signals Analysis Stream**

**Vestal, NY**

*Researcher*

*August 2022 - December 2023*

- Directed a team of 5 peers in research meetings and spearheaded the development of machine learning and image analysis models to tackle AI Housing Bias and Facial Recognition Bias, resulting in professionally researched projects<sup>2</sup>

**JPMorgan Software Engineering Virtual Experience Program on Forage**

**Virtual**

*Participant*

*August 2023*

- Utilized Perspective data visualization software, Python, and Typescript to monitor stock market price trends and create stock trading strategies

**Institute of Creative Problem Solving**

**Old Westbury, NY**

*Researcher*

*September 2015 - June 2021*

- Utilized advanced geometric and trigonometric theory to discover the solution to the 'Treasure Map Problem', resulting in a gold medal-winning research paper at Long Island's largest math research competition<sup>3</sup>

## LEADERSHIP ACTIVITIES

**Asian Student Union**

**Binghamton University**

*Marketing Chair*

*May 2023 - Present*

- Planned, managed, and publicized the largest social and cultural events for the Asian American sector of the school
- Created and spearheaded a discussion event regarding Asian Diaspora, facilitating a discussion with 30 participants, fostering an open and engaging environment for diverse discussion

**Delta Epsilon Psi Inc. (Social and Service Fraternity)**

**Binghamton University**

*Vice President, Social Chair, Fundraising Chair, Service Chair*

*November 2022 - Present*

- Orchestrated fundraising events and secured sponsorships for philanthropic initiatives, including Binghamton's Holi festival

## Projects

**Weather API**

*Fall 2023*

- Created a weather API project in Node.js, deployed on Render, serving as an early practice in frontend development and API integration<sup>2</sup>

**Floating Point**

*Spring 2023*

- Explored IEEE floating point numbers, mastered bit manipulation in C, and gained expertise in number type conversions<sup>2</sup>

**Pokemon 1v1**

*Spring 2023*

- Implemented a Python program for Pokemon 1v1 battles, randomly generating and displaying two Pokemon, with images displayed via URL splicing, OpenCV, and NumPy<sup>2</sup>

## Project Links

- (1) [Foodi](#)      (2) [Project Portfolio Website](#)      (3) [Al Kalfus Long Island Math Fair Gold Medal Paper](#)