

# Aman Jot Singh

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## EDUCATION

**University of Delaware** – Honors College

Newark, DE

Major: Computer Science B.S. (Concentration in Artificial Intelligence and Robotics)

August 2021 – May 2025

Minors: Mathematics, Linguistics

Cumulative GPA: 3.969; Dean's List all semesters

Relevant Coursework: Data Structures, Parallel Computing, Algorithms, Software Engineering, Artificial Intelligence, Database Systems, Educational Game Design, Machine Organization and Assembly Language, Systems Programming, Logic for Programming

## EXPERIENCE

**The Chemours Company**

Wilmington, DE

*Data Engineering Intern*

May 2024 – August 2024

- Migrate multiple internal database systems to a new server (SQL Server, Microsoft Azure).
- Design and implement a frontend to facilitate data analysis (Python).
- Collaborate daily on a team practicing agile development.

**Wyant Tutoring**

Bear, DE

*Freelance Computer Science Tutor*

July 2021 – Present

- Teach >15 students about Computer Science topics (Python, PHP, SQL, JavaScript, HTML, CSS).
- Provide help for projects, homework, and enrichment through online and in-person lessons.
- Prepare frequent lessons for each student (>100 hours logged on the platform).

**University of Delaware**

Newark, DE

*Undergraduate Researcher*

June 2023 – August 2023

- Completed a 10-week research program involving computer programming.
- Verified a computationally complex mathematical proof by writing Python scripts (NumPy, Pandas).
- Designed a poster and presented results at the Symposium for Undergraduate Research.

**University of Delaware**

Newark, DE

*Computer Science Teaching Assistant*

August 2022 – December 2022

- Developed instructional material for an introductory Computer Science course.
- Created, edited, compiled, and debugged projects in Python for accelerated students.
- Scheduled office hours to help students with course assignments and projects.

## PROJECTS

**HenHacks Hackathon 2023**

University of Delaware

*Placed 1<sup>st</sup> in the M&T Community Hack*

May 2023

- Formulated a solution to a local issue during a 24-hour team hackathon.
- Programmed a website demo and presented to a panel of judges (React, TypeScript).

**Data Science + Artificial Center of Intelligence Summer Hackathon 2023**

University of Delaware

*Placed Top 4 in the competition*

July 2023

- Developed generative models to improve a precipitation prediction algorithm using existing datasets.
- Presented findings via daily presentations and at the 2023 Data Science Symposium.

## SKILLS

- Software Development, Visual Studio Code, Git, GitHub, Agile, Scrum, IntelliJ, Shell Scripting, VIM, Microsoft 365, SQL
- Proficient in Python, Java, JavaScript, jQuery, HTML, CSS, SQL, TypeScript | Highly competent in C, C++, PHP, React

## ACTIVITIES

**Computer Science + Social Good**

Newark, DE

*President & Project Coordinator*

August 2023 – Present

- Organize and host weekly meetings using Computer Science to serve communities.
- Lead the design and development of an application to serve the local community (React, TypeScript, Git).
- Educate students on core Computer Science topics with presentations and demonstrations.