

Arnav Gupta

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EDUCATION

Hunterdon Central Regional High School - Hunterdon, NJ

Sep 2021—June 2025

UGPA: 3.9750 & WGPA: 4.4542 | AP Exams: AP Computer Science A (5), AP Calc AB (5), AP Statistics (5)

SKILLS AND INTERESTS

Tech/Programming: ReactJS, Angular, Java, C/C++, HTML/CSS, Bootstrap, JavaScript, Python, jQuery, SQL, MySQL, Node.JS, Express.JS

Tools: Visual Studios Code, Eclipse, GitHub, Postman, Azure Data Studio, DBever, Docker

Interests: Basketball, Golf, Skateboarding, Technology, Saxophone, Weightlifting, Cars, Music, Traveling, Video Games

EXPERIENCE

Student | **Harvard Summer School**

Jun 2024—Aug 2024

- Admitted to Harvard Summer School 2024 & enrolled in Introduction to Artificial Intelligence with Python *CSCI S-80*
- Implemented AI algorithms for search, constraint satisfaction problems, **convolutional neural networks**, and **machine learning**.
- Built AI models using **TensorFlow** and **Keras**, applied to real-world problems like game playing and **NLP**.

Computer Science Teacher Intern | **AiGoLearning**

Jun 2023—Aug 2023

- Served as a Computer Science Instructor to foster a deep understanding of programming concepts among 30+ students.
- Instructed students in various subjects—such as Web Design/HTML/JavaScript, Java, C++, Data Structures/Algorithms.

Lead Web Developer & Founding Member | **RobotConNJ.org**

May 2022—Oct 2023

- Built website from scratch to provide guests information about a Robotics event (registration, logistics, sponsors) with over 21.75K views.
- Collaborated with a diverse group of mentors to curate inputs and content.

Software Developer Intern | **Wrestling-Vision**

Apr 2022—Oct 2022

- Developed a wrestling game analytics engine using **Google API's** to extract and store data from Google Sheets as wrestler profiles.
- Designed & coded **Java** algorithms to build a detailed breakdown of optimal wrestling matchups, updating a new spreadsheet in real-time.
- Streamlined report generation by automating the process, resulting in a 80% reduction in manual data input.

Volunteer and Mentor | **ENGin**

May 2020—Aug 2022

- Tutored Ukrainian students English remotely; created session materials; assisted with homework; led conversation practice; mentored new volunteers.

LEADERSHIP

Founder and President | **Developer Code Club**

Oct 2022—Present

- Founded a selective Computer Science Club for dedicated participants to learn new technologies and engage in internship programs.

Project #1: Automated Mail Pass System

- Innovated physical school passes by automating pass systems through email, resulting in a 60% reduction in manual labor.
- Designed and developed the back end using **Node.js**, and used **HTML** and **EJS** for the front end.

Project #2: Bathroom Management System

- Designed/developed a revolutionary bathroom system which organized presentable data and reinforced bathroom policies.
- Utilized technologies such as Node.js, HTML, **Bootstrap**, **EJS**, **MySQL**, | Integrated **Websockets**.

VP Project Manager ~ *Previous Programming Captain* | **Robotics Team 3637**

Sep 2021—Present

- Implemented AprilTag vision, localization, path planning, lidar, ROS, and swerve drive; mentored peers & developed holistic ideas on programming, mechanical, & electrical aspects
- Awards: *FIRST* Impact Award 2024 Montgomery District, Competition winners 2024 Montgomery District (Ranked 1/36), *FIRST* *Mid-Atlantic* District Championship Semi-Finalist, Participated in *FIRST* Robotics World Championship in Houston

Vice President ~ *Previous Recording Secretary* | **Speech & Debate Club**

Sep 2021—Present

- Managed club communications; initiated fundraisers; taught peers debate skills; created a club website from scratch; managed social media pages.
- Awards (all varsity level competitions): **3rd** in Varsity Parliamentary Debate (Summit), **4th** in Varsity Parliamentary Debate (Phillipsburg), **5th** in 2023 States Parliamentary Debate, and **Semi-Finalist** for 2024 Parliamentary Debate State Competition

Vice President & Founding Member | **Investment Club**

Sep 2022—May 2024

- Organized highly successful educational trip to Wall Street with over 60+ members; taught market simulations for decision-making skills; implemented effective fundraiser programs at Buffalo Wild Wings & Chipotle, raising around \$1,000 for club activities
- Implemented attendance process using NFC tags instead of manually recording names.

OTHER ACTIVITIES

Hackathon: Placed 2nd in a hackathon event, **Trojan-Hacks** (Utilized **ReactJS**, **Open AI API's**, and Google API's).

Dec 2023

Hunterdon Outreach Program & Connect Club

Apr 2023—Present

- Help the special needs community by participating in kickball, basketball, and golf opportunities 1-on-1.

Academic Tutor

Sep 2022—Present

- Tutor Algebra, Geometry, Pre-Calculus, and Computer Science on a weekly basis.

First Lego League Mentor

Oct 2022—Nov 2023

- Served as a guru to little kids enthusiastic about the field of STEM.