Arnav Gupta

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EDUCATION

Hunterdon Central Regional High School - Hunterdon, NJ   **Sep 2021–June 2025**
UGPA: 3.9750 & WGPA: 4.4542

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*

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.

Head Web Developer *(FIRST Robotics Offseason Event)* | Rvsts.org   **May 2022–Oct 2023**
- Built a website from scratch to provide guests information about a Robotics event (registration, logistics, sponsors) with over 6.75K views.
- Collaborated with a diverse group of mentors to curate inputs and content.

Software Developer Intern *(Hunterdon Central High School, NJ)*   **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 40% reduction in manual data input.

Volunteer and Mentor *(ENGin)*   **May 2020–Aug 2022**
- Tutored English to several Ukrainian students one-on-one remotely and prepared student-centered session materials.
- Assisted with homework and participated in conversation practice to develop students' English skills
- Served as a mentor for new volunteers and helped them get familiar with the program

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 Program Manager | Robotics Team 3637   **Sep 2021–Present**
- Lead the team in software solutions by demonstrating **vision processing** during autonomous commands, enabling **PID** correction for motor controllers, and integrating a swerve drive system for enhanced mobility.
- Provide mentorship to peers by teaching new technologies and ensuring they understand fundamental concepts.
- Develop holistic ideas for the robot by contributing Mechanical, Electrical, and Programming perspectives.
- Team's 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 | Speech & Debate Club   **Sep 2021–Present**
- Take responsibility for writing a newsletter (description of the upcoming activities), placements in tournaments, and new resolutions.
- 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

Founder Member & Vice President | Investment Club   **Sep 2022–May 2024**
- Initiated the planning and execution of a highly successful educational trip to Wall Street with over 60+ members.
- Designed and implemented effective fundraiser programs at Buffalo Wild Wings & Chipotle, raising around $1,000 for club activities.
- Educate members using top-of-the-line market simulations, ensuring they gain key decision-making skills.
- Implemented attendance process using NFC tags instead of manually recording names.

OTHER ACTIVITIES

Hackathon: Placed 2nd in a hackathon event in PA (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.