# 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*
- 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.

**Head Web Developer *(FIRST Robotics Offseason Event)* | RobotConNJ.org**                    **May 2022—Oct 2023**
- Built  website from scratch to provide guests information about a Robotics event (registration, logistics, sponsors) with over 11.75K 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 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 Program 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

**Founder Member & Vice President | 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.