

# Pranav Gupta

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## Education

### Duke University

*Bachelor of Engineering*

• **Relevant Coursework:** EGR101, CHEM101, MATH218

**August 2023 - May 2027**

*Durham, NC*

### Langley High School

*High School Diploma*

• **GPA:** 4.413 of 4.0 (weighted)

• **Relevant Coursework:** AP Calculus BC, AP Physics C Mechanics, AP Computer Science A, Linear Algebra, Multivariable Calculus

**August 2019 - June 2023**

*McLean, VA*

## Experience

### Duke Motorsports

*Powertrain Engineer*

• Performing radiator analysis using ANSYS and Solidworks to quantitatively find correct radiator sizing.

**September 2023 - Present**

### Valence Robotics

*Mentor & Lead*

• Advise a team of 40 high school students in the fabrication of a custom robot to compete in the FIRST Robotics Competition

**September 2023 - Present**

### Oystilter

*Founder*

• Designed and fabricated a submersible device to remove contaminants from natural waterways.

• Applied for a patent, currently patent-pending.

**December 2021 - Present**

### CodefyCS

*Executive Director*

• Oversee 40+ mentors and 500+ students around the globe.

• Developed custom curriculum on various different coding languages and delivered over 100 engaging lessons.

**December 2020 - Present**

### The George Washington University

*AI/ML Researcher*

• Employed a Machine Learning-based Object Detection Model to allow drones to detect moving objects.

• Created and modified an algorithm to predict the movements of people and vehicles.

**June 2022 - August 2023**

### Kumon Learning

*Tutor*

• Provided academic guidance and coaching to students in elementary Math and English subjects.

• Tutored in various math subjects from Pre-Algebra to Multivariable Calculus.

**May 2019 - January 2023**

### Virginia Aerospace and Science Technology Scholars

*Scholar*

• Conducted research and developed a plan for how NASA would conduct a mission to Mars.

**November 2021 - July 2022**

## Awards

**Honorable Mention for MIT THINK** Research mentorship program promoting student-led innovation in STEM

**February 2022**

**Semifinalist in Diamond Challenge** Entrepreneurship Competition, One of 50 out of 600 teams

**January 2022**

**Semifinalist in Taco Bell Ambition Accelerator** Entrepreneurship Competition, One of 25 out of 500 teams

**September 2022**

**Presidential Volunteer Service Award - Silver** Volunteered for over 200 Hours

**October 2022**

## Activities

**Duke Electric Vehicles** Compete in the Shell Eco-Marathon Urban Concept Division

**August 2023-Present**

**Duke Applied Machine Learning** Hardware division, work on projects to solve real-world issues

**August 2023-Present**

## Skills & Interests

**Communication** Extensive experience writing and public speaking

**Languages** Java, Python, C, C++

**Tools** Solidworks, Autodesk Inventor, Onshape, AutoCAD

**Interests** Taekwondo, Basketball, Cooking/Baking