JOSHUA MARKLE

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OBJECTIVE

To obtain a research-based mentorship involved in computer science and engineering.

EDUCATION

Governor's School for Science and Technology Graduation Year: 2024 – Unweighted GPA: 4.0

A highly selective magnet school that supports high achieving STEM students and facilitates research & innovation

Courses:

- Computational Physics
- Engineering Design
- Research Methodology & Ethics
- Multivariable Calculus & Linear Algebra
- Calculus I & II
- Honors Research & Mentorship

Activities & Leadership Roles:

- Python Programming Club President – Teach students coding concepts; Prepare for programming competitions
- Game Jam Club Co-lead – Student run club; Hosts regular video game development contests between students
- Represented the Governor's School for various programming competitions:
  - 2023 ACM High School Programming Contest Team Leader (UVA)
  - 2023 VCU Programming Competition Team Leader
  - 2023 Great Computer Challenge (ODU) Team Leader - Scientific Programming Category
- Physics Club – Prepares students for the International Physics Olympiad

Warhill High School Graduation Year: 2024 – Unweighted GPA: 4.0

Ranked number 1 of 305 students

Activities:

- National Honor Society
- National Science Honor Society
- National Math Honor Society
- Key Club Member

SKILLS

Python | C/C++ | Website Development | Mobile Development (Flutter) | AI/ML | Unity (C#) | Git | Linux

PROJECTS

Milestone – Flutter Mobile App

- Milestone is an app designed to empower student drivers on their journey from learner's permit to driver's license. It helps users track their driving hours and provides them with key concepts needed to pass the exam.

Evolution Simulation – Unity Simulation

- Simulation and optimization of artificial genome of single cell organism within a customizable environment

JoshuaMarkle.com – Personal Website

- A personal website that contains my portfolio and helped advance my web development skills

Drone Stabilization AI – Machine Learning Project

- Developed drone stabilization AI to stabilize a drone in flight in a simulated environment.

AWARDS

Winner of the 2023 Congressional App Challenge (w/ Milestone)

- A prestigious nationwide competition between young software developers centered around software development

Xerox Award for Innovation and Information Technology – Awarded by The University of Rochester

- Award for notable achievements in the field of new technology along with $20,000 scholarship ($5,000 per year)

Outstanding Junior Research Award – Awarded by The Governor's School

- Created a in depth (science fair) project, Humans vs. AI, designed to test pattern recognition differences between humans and artificial intelligence and presented at the NHREC junior science fair

2023 International Physics Olympiad Participation Award

- Took part in the IPhO, an annual, international physics competition for high school students