Visvam Rajesh

A high school junior with a passion for computer science. Looking forward to help people using technology.

Objective

Seeking internships & research opportunities to use and build on my software development skills with a focus on Robotics and Path Planning algorithms.

Volunteering	Treasurer in 4-H Robostorm Robotics, AV-setup, Logistics Coordinator in Chinmaya Ramdoot YSLP 'U'va Keystone'. FIRST LEGO League Mentor, Teaching coding and robotics classes at Hunterdon County Library, Math Honors Society Tutoring.
Courses	AP Computer Science Principles, Unreal Engine 4: The Complete Beginner's Course (Udemy.com, David Nixon), Inspirit AI Scholars Program, AP Computer Science A, AP Calculus ABC, AP Chemistry, AP Research, AP Seminar
Projects	Weather Station, 4th Grade; Space Invaders Recreation, 5th Grade; Unity Games, 7-8th Grades; GPS Tracker using Pico, 9th Grade; Pathfinding in 3D voxel spaces, 11th – 12th Grade; Mythological Tools (Hackathon Project), 11th Grade;
Skills	C++, Python, Java, C#, JavaScript, React, Typescript, git, Visual Studio Code, Visual Studio 2022, Unity, Jupyter, WPILib, Android Studio, Unreal Engine 5, Unity, Video Editing, National Speech and Debate Association (NSDA) Excellence Degree – Parliamentary Debate, GPA (Unweighted) 4.0, GPA (Weighted) 4.43, 2 Principal Honor Rolls, AP Scholar

Experiences

The Daleks, FIRST Robotics Competition Team 3637 - President   **September 2021 - Current**
- Just under 6 weeks to design, build, and program a robot along with my peers to compete.
- Won district event at Montgomery and qualified for world championships in Houston, Texas and received the FIRST Impact Award, the most prestigious award available in competition.
- Nominated by team for the Dean's List award, given to outstanding secondary students in robotics.
- Mentored a FIRST LEGO League team and they were able to reach and win awards at the state level.

Math Honors Society – National Mu Alpha Theta - President   **September 2023 - Current**
- Runs peer tutoring program, organizes club meetings, and supervises math league competitions.

Do Good with Data 501(c)(3) - Vice President   **September 2022 - Current**
- Host events about data science and have professionals in the field communicate the importance of data science to students across the nation
- Conducted 10+ events, attended by 450+ students & parents across the nation

Pathfinding Research Project - Researcher   **September 2023 - Current**
- Working with Dr. Wu from NJIT on a research paper regarding pathfinding within 3-D voxel spaces.
- Using Unreal Engine 5, C++, and Blueprints to build voxel environments and learned about A* and Dijkstra's algorithm.
- Created GPU instances in AWS, deployed program, and collected data for research.

Mathnasium Flemington - Mathematics Tutor   **October 2023 - Current**
- Tutor kids K-9 on mathematics subjects up to Algebra II.
- Built valuable skills in teaching and working with kids of all math skills.

Developer Code Club - Web Developer   **October 2022 - Current**
- Designing and developing a new pass system for a high school of 2,600 students
- Using ExpressJS, EJS, and Websockets to build web applications.

Programming with EV3: Mars Mission, STEAM Works Studio & YMCA   **July 2022 – August 2022**
- Taught elementary school kids the importance of STEM through EV3 LEGO robots
- Students would have to engineer a solution to complete the "Mars Mission" challenge using the kit of the same name from LEGO