Shishir Rajendran

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EDUCATION

Alliance Academy For Innovation   *Anticipated May 2025*
Cybersecurity and Digital Intelligence Track   GPA 4.0

WORK EXPERIENCE

Curie Learning Center   **Cumming Georgia**
Tutor   *August 2020 - May 2021*
- Provided over 50 students aid with new mathematical concepts from simple addition to Algebra 1
- Guided students to efficiently solve competition math questions from CML and Kangaroo Math
- Helped grow the center by taking part in competitions to attract more students and clients

Kumon   **Cumming, Georgia**
Tutor & Grader   *May 2021 - Present*
- Assisted students with Kumon levels A - L of math and reading, from grades K-12
- Supported with data entry of over 100 students' test scores, worksheet completion, and attendance patterns
- Organized hundreds of worksheets for the learning center for student use, completion, and grading
- Conversed with parents about child progression and helped inform new clients about the center

PROJECTS

FIRST Robotics Competition Robot Code   *January 2022 – Present*
- Worked with 4 other robotics programmers to create a program that allows Alliance Acaedemy's robot to function at its best
- Operated specifically with the autonomous program, camera identification and shooter, and the drivetrain of the robot
- Scored a multi-ball autonomous with wpilib robotics software, pathplanner autonomous software, and limelight
- Utilized command based and embedded programming to achieve a more efficient shooter, intake, index, and drivetrain

Sorting Algorithm Visualization   *March 2022 – April 2022*
- Produced a sorting algorithm that utilizes 3 different sorting techniques in order to visualize 50 values
- Implemented an algorithm generator which allows additional sorting algorithms to be added easily by other programmers
- Applied bubble sort, insertion sort, as well as selection sort into the visualization to propose a variety of sorting solutions
- Constructed an intelligent sorting model that responds on key presses described on a user friendly, directional interface

Music Party Player with Spotify API   *March 2021 - April 2021*
- Built a web application that allows users to play music online to many devices in one online party
- Implemented Django framework for the backend, incorporating views, models, and forms to make more secure and friendly
- Utilized the Spotify Developers API to aid in creating a well functioning, aesthetic, and cohesive music application.
- Developed the front end using advanced HTML5 and CSS styling while incorporating React JS for interaction

A* Pathfinding Algorithm Visualization   *January – February 2021*
- Created a pathfinding algorithm that visualizes and finds the shortest distance between 2 nodes or points on a graph
- Built with Python, and specifically the pygame module inorder to create a visualization that complements an algorithm
- Produced software that reacts to barriers on the graph and adapts to find the shortest distance regardless.
- Can be used by other fields like mapping and in travel routing systems like GPS and google maps.

Aether Analytics Website
- Designed a demo chat website for an upcoming startup business known as Aether Analytics
- Implemented HTML5, CSS, and Javascript Ajax for the frontend with Bootstrap and Crispy forms build around it
- Utilized Django models, forms, and views to build a well functioning efficient demo application/website on the backend
- Made use of web sockets, Ajax, and Http responses on the chat aspect of the website while using Django URL redirection

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LEADERSHIP / VOLUNTEER

VEX Robotics Competition *August 2020 – Present*
Judge and workshop header
- Worked on and co-headed judging at Georgia regional VEX Competitions as well as a programming workshop respectively
- Helped 135 Middle School VEX teams learn about autonomous programming for VEX robots.
- Expanded robotics across middle schools in Georgia and helped those teams reach state and even world competitions
- Handed out and helped choose winners for various awards and conducted interviews for those winning teams

Alliance Academy Debate Team *August 2021 – Present*
Leadership and Research Committee member
- Headed research in debate team for 5 NSDA Topics, which members of the team used to compete in competitions
- Created a ridged plan for a list of things to do for each meeting as well as guided new members into debate
- Composed various presentations for new members on debate writing, formatting, and presentation skills.

AWARDS / HONORS

FIRST Robotics PCH District Chairman's Award Honors *April 9th 2022*
GRAB State Academic Bowl Tournament 1st Place Winners *February 26 2022*
FIRST Robotics PCH District Second Place Alliance *March 26 2022*
Forsyth County Tech Fair 1st Place *April 20, 2021*
Juni Learning Winter Hackathon *January 2019*
Covid 19 Challenge National Champion *March 2021*
American Scholastic Challenge National 3rd place *April 2019*

SKILLS/INTERESTS

Software:	Python | Java | JavaScript | CSS/HTML | REACT | Django | OnShape CAD | Shotcut Editing | Flask
Hardware:	machining tools | soldering | 3D printing | rapid prototyping | woodworking
Spoken Languages:	English (Native) | Spanish (Working Proficiency) | Malayalam (Working Proficiency)
Communication:	oral presentation | technical writing