Ayush Sagar

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EDUCATION

Green Hope High School   Cary, NC
Junior   *Aug. 2021 – Present*

EXPERIENCE

Vice President of Programming   April 2023 – Present
FRC 5190 - Falcon Fury   *Cary, NC*
- Developed software for a First Robotics Competition robot using Java and the WPILib library
- Created a project 'FalconMembers' which is an Inventory tracking software created using MongoDB, Express JS, React, and Node JS
- Lead a team of six student programmers
- Explored and implemented field localization using April tags on the field using a Limelight 2 camera
- Created a system to automatically intake game piece using a Google Coral and Machine Learning Model

Senior Front End Developer   Aug. 2022 – Oct. 2023
Pitch Labs   *Cary, NC*
- Maintained and regularly updated the visuals of the Website using React JS, Chakra UI, and Tailwind CSS
- Helped redesign and restructure the website to qualify for $120,000 Google Advertisement grant
- Managed a team of two front end developers

Game Developer   May 2023 – Aug. 2023
Virtual Robot Simulator   *Virtual*
- Utilized the Unity game engine to simulate FTC Robots and fields
- Developed a game mode for the 2023 FTC game POWERPLAY

PROJECTS

Supertrend Strategy Stock Trading Bot | *Python, Git*   Feb. 2021 – April 2021
- Developed a Python-based stock trading bot that uses the Supertrend strategy to predict if specific stocks are a buy or sell
- Utilized the Alpaca Paper Trading API and Yahoo Finance API (yfinance) to gather data and make trades.
- Automated the bot using PythonAnywhere to emulated the times when the Stock Market was open
- Later optimized and made the bot compatible with Cryptocurrency

Scouting App | *Javascript, HTML, CSS, Git*   Dec. 2023 – Feb. 2024
- Developed a Web app which had an easier way to scout other Robotics teams at competitions using QR codes
- Used qrcode.js library to generate QR codes that would then be scanned by an *Admin* device and then automatically sent to a spreadsheet for data analysis
- Provided an easier way to scout at competitions without using WiFi bandwidth

FindMyCompetition | *Bootstrap Studio, Netlify, Git*   June 2022 – Aug. 2022
- Developed a website where students can find high school competitions in their state
- Co-founded a company where young students could find extracurriculars near them

TECHNICAL SKILLS

Languages: Java, Python, C#, JavaScript, HTML/CSS
Frameworks: React, Node.js, WordPress, Tailwind CSS, Chakra UI, Express JS, MongoDB
Developer Tools: Git, Docker, Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ
Libraries: pandas, NumPy, Matplotlib, WPILib, yfinance API, Alpaca API