AYAAN KUMAR

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EDUCATION

University Of Washington - Bothell

Bachelors of Science, Computer Science, Software Engineering Focus   2024 - 2027
- GPA: 4.0
- Clubs & Experience: DubHacks hackathons, Association for Computing Machinery, and HackRover.

EXPERIENCE

Redmc

Free Lance Developer   Jun 2024 - Present
- Delivered over 10 responsive websites using HTML5, CSS3, JavaScript, and React, designed with performance optimization for enhanced user experience.
- Improved user engagement through intuitive UI/UX designs that align with client requirements.
- Optimized web application performance and reduced loading times by applying advanced JavaScript techniques and lazy loading.
- Implemented TailwindCSS for creating responsive, mobile-friendly, and scalable web designs ensuring robust front-end development.

PROJECTS

Breast Cancer Classifier
- Used the K-Nearest Neighbors algorithm to compile external data and classify them as either benign or malignant
- Developed a grapher to display data results
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SP500 Predictor
- Uses previous S&P500 data to train Random Forest Machine Learning Algorithm
- The model accurately predicts the movement of the index as either up or down, tokened by 0 or 1

Critter Simulation Game
- Created a 'survival of the fittest' simulation game using different animals
- Focused on using OOP concepts as a tool to add different animals into the simulation
- Additionally created a visualizer animating the game in action

Rocket Deployment System
- Created a rocket parachute deployment system using arduino
- Based off BMP 180 altitude data, the system recognized when the rocket was descending and triggered the release mechanism
- The release mechanism comprised of a servo lifting a pin withholding the parachute

Personal Website
- Built an advanced personal website implementing different styling techniques
- Implemented all visualized samples of all projects

SKILLS AND FRAMEWORKS

Java, JavaScript, HTML, CSS, Python, C, C++, React, EmailJS, AWS, Node.js, Git, Linux, GitHub, TailwindCSS, Pandas, SQL, mySQL, computer science, software development, back-end web development, object-oriented programming (oop), programming, non-profit experience

ACHIEVEMENTS

FBLA Nationals 8th Place Finalist - Networking Infrastructures
- 2024

FBLA Nationals 9th Place Finalist - Business Ethics
- 2023