Aaron Shrestha
ashrestha@seattleu.edu | (206)890-6218 | Seattle, WA

Education

Seattle University| Seattle, WA   Expected Graduation May,2025
B.S. Computer Science

Relevant Coursework: Object Orientated Programing, Data Structures and Algorithms, Database Design and Applications, Logic and Proofs in CS, Unit Testing, and a strong foundation in programming with C++.

Skills and Technical Tools

Programming Languages: C++, Python, C#, SQL, HTML, CSS, PHP, React
Software Tools: Visual Studio Code, Visual Studio, EasyBuilder Pro
Databases: MySQL, Firebase

Experience

Controls Engineering Intern | Weintek, Fall 2021
- Created detailed documentation for programs and specific features, improving user accessibility and understanding.
- Designed and developed engaging demos incorporating multiple functions and database integration, enhancing product usability and presentation.
- Improved on creating UI designs for better organization and clarity for customer use.
- Improved Weintek online forum's by inserting keywords to posts for better organization leading to improved searchability and ease of use for customers.

Projects

Nasa Hackathon Ocean Gardens (React):
- Led a React hackathon team for NASA's ocean conservation project by creating an interactive website emphasizing sustainability, and preservation of the ocean and the planet with a 36-hour window.
- Implemented Firebase for user posts, discussions, and user authentication through Google.
- Designed 10 quizzes for users of all ages, featuring a scoring system across various ocean related categories for memory retention of users.

Basketball Team Management System (SQL, HTML, CSS, PHP):
- Designed and developed a web-based application using HTML, PHP, and SQL to facilitate the management of basketball team data.
- Implemented a user-friendly interface allowing users to input and manage information for players, teams, coaches, and statistics, all of which were stored in a MySQL database.
- Allowed for input of new teams and players to the database with simple data inputs.

Trivia Website (React):
- Developed a dynamic trivia website using React and Firebase with user authentication, user-generated content, and API-integrated trivia questions on multiple categorizes.
- Designed and implemented a user-friendly interface for user interaction and message submission.
- Included real-time track of user score on each trivia session.
- Deployed website using firebase to make available online.

Stock Tracker (Python)
- Part of a hackathon team that created a Python based tool to track that real-time stock price of a company.
- Implemented a web scraper to gather new tweets about a specific company.
- Created a sentiment analyzer to gauge public opinion on stock and corelate them to real-time stock price.

Niryo Robot HMI (EasyBuilder Pro):
- Successfully interfaced an HMI device with a Niryo Robotic Arm and its claw using EasyBuilder Pro.
- Designed an intuitive user interface to monitor and control the robotic arm's precise movements and rotations.
- Achieved seamless communication between the HMI device and the robotic arm.