Soham Raut

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Education

University of Washington, Seattle   **Expected Graduation: June 2025**
Bachelor of Science, Computer Science
- GPA: 3.93, Awarded Dean's List in Autumn 2021, Winter 2022, Spring 2022
- Relevant coursework: Web Development, Discrete Math, Automata Theory, Hardware/Software Interface, Discrete Probability, Data Structures and Parallelism.

Experience

Washington Hyperloop | *Controls Team Member*   **November 2022 - Present**
Seattle, WA
- Collaborated with the Controls Team to develop a robotic navigation system for a Tunnel Boring Machine built for the Not-A-Boring Competition.
- Implemented a data processing system in Python to process navigation sensor data from the head of the machine, simulated different environments, and devised procedures handling system failure.

Candent Technologies | *Software Engineer Intern*   **April 2020 - June 2020**
Pune, Maharashtra, India
- Implemented a MySQL-Python interface system using Python's mysql.connector library for data storage after processing, and learned Git for version control.
- Tested and revised potential errors in the AI analytics system using multiple real-world test scenarios.

Projects

TaskMaster | *HTML/CSS, JavaScript, Node.js*   **June 2022**
- A clean full-stack website built to create, modify, or delete tasks efficiently, with a secure login system.
- Implemented a quick, responsive REST API using Node.js with an SQLite database to store user profiles and tasks, along with a functioning back-end system built using Express.js
- Utilized HTML, CSS, and JavaScript to create a quick and responsive front-end web experience.

GameZone | *Python, SQL*   **June 2021**
- Led a team to design and implement a responsive text-based game arcade in Python with five games - Mastermind, Tic Tac Toe, Hangman, Rock-Paper-Scissors, and Quizzer
- Helped streamline a login and user records system using an SQL database for added security

Extracurriculars

ThriftEats | *Winner of DubHacks Next Most Commercially Viable Prize, DubHacks 2022*   **October 2022**
- Developed a full-stack website aiming to minimize spending by suggesting recipes based on current deals, and streamlining the grocery budgeting and shopping process..
- Learned and utilized Figma to design web pages, and implemented a JavaScript back-end to fetch coupon details and other relevant information from third-party APIs.
- Integrated the back-end with a front-end React interface, and designed a recommendation system for recipes to maximize ingredient deals to achieve the lowest possible spending.

Technical Skills

- **Programming Languages:** Python, Java, JavaScript, HTML/CSS, SQL, RStudio, C, C#
- **Frameworks/Libraries:** NumPy, Pandas, Scikit-learn, Node.js, React, Bootstrap
- **Technologies:** Git, Linux/Ubuntu, Vim, Unity, REST API, Figma
- **Certifications:** AI Foundations and Value Estimations, Computer Networking, Digital Security