SUMANT **GUHA**

CONTACT

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sumantguha

sumantguha99

EDUCATION

University of Washington
Computer Science(Intended)
Expected Graduation: Spring 2022
GPA: 3.82 • Dean's List Scholar

COURSEWORK

- Algorithms and Data Structures
- Computer Programming in Java
- Abstract Linear Algebra
- Applied Machine Learning
- Introduction to Artificial Intelligence
- Real time image detection with TensorFlow and OpenCV

ACTIVITIES

- **Husky Game Studios:** Co-Founder at Husky Game Studios. Designed games in C# in the Unity Engine. Developed game mechanics in tandem with graphics.
- **Aage Chalo:** Treasurer at a non profit organization sponsoring education in India. Taught and managed health and sports classes for young children

SKILLS

Over 1000 lines:
Java • Python • JavaScript • R • TensorFlow • PyTorch • HTML • CSS

EXPERIENCE

Paul G. Allen School of Computer Science and Engineering | CSE 14X Teaching Assistant

Seattle, Washington | January 2020 - Present

- Teaching topics ranging from basic programming to data structure implementations and sorting algorithms
- Lead weekly recitation sections with around 25 students
- Worked at the introductory programming lab, open to more than 800 students enrolled in the introductory series
- Graded 800+ student midterms and final exams

Ernst & Young | Machine Learning Intern

Bangalore, India | June 2019 - August 2019

- Worked on building supervised machine learning models for question answering tasks with dual attention LSTM models
- Member of a team that built a deep learning tax bot to facilitate tax advising. Trained and developed a model to answer internal tax related questions
- Created and maintained a platform for tax analytics and recommendation policies

Husky Robotics | Embedded Systems Programmer

Seattle, Washington | September 2018 - June 2019

- Built a Mars Rover prototype for the University Rover Competition
- Created an embedded systems framework, programming microprocessor boards on the rover to control parts such as the chassis, arms, and legs
- Developed movement abilities such as forward and inverse kinematics and integrated computer vision abilities

PROJECTS

Husky Maps

Seattle, Washington | June 2019 - December 2019

- Extended a huge codebase to integrate a large scale map server of UW. Implemented closed form solutions to develop fast Rastering, and Routing algorithms
- Executed turn by turn directional navigation to improve user guidance

Messenger Chat Platform

Seattle, Washington | May 2019 - September 2019

- Worked in ReactJS and NodeJs to create a full stack chat platform with a functional front end and a real time back end
- Integrated web sockets and MongoDB backed database to ensure high compatibility between multiple devices

Insurance Fraud Detection | Mu Sigma inc.

Bangalore, India | June 2018 - September 2019

- Built a classification model to detect automobile insurance fraud with 85% accuracy
- Model reduced fraud for a global automobile client that was predicted to generate a $2 million increase in annual revenue