Andrew Jang

Software Engineer

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Experience

ID Tech Online Instructor (March 2023 - Present)
- Taught clients topics that ranged from web development and computer science to pre-algebra and algebra.
- Developed adaptive software and math curriculums based on the client's needs including projects such as personal websites, web games using P5play, and Python text adventures.

Underwater Remotely Operated Vehicles team at UW, Vice President / Software Lead (Jan 2019 – July 2022)
- Designed the architecture of a user interface and took part in designing the full software system for the Robot with ROS.
- Managed a team of engineers in the development of a front-end application.
- Participated in the MATE international competition as a team and placed 2nd in 2022.

Projects

DARPA Machine Learning Challenge: 2021
- Led team of two to design and train an MDN/LSTM model as a submission to DARPA's 2021 Forecasting Floats in Turbulence challenge.
- Machine learning model built from Python using the Pytorch library to predict the trajectory of floating objects in the ocean.

Park Accessibility in Seattle, WA and Vancouver, BC Research Project: 2022
- Worked with a team of three to analyze the accessibility of parks within the city of Seattle, WA, and Vancouver, BC.
- Used ArcGIS to run spatial analysis tools and determine the practicality and safety of access to parks in the cities.

UWROV GUI: 2020 – 2021
- Led a team of five to develop a graphical user interface for an underwater remotely operated vehicle in Reactjs, SocketIO, and Python Flask.
- Trained new members in the basics of web development and SocketIO.

Skills

- HTML / CSS
- JavaScript / TypeScript
- ReactJS
- NodeJS
- LeafletJS
- TurfJS
- GraphQL
- SQL
- SocketIO
- Python
- Flask
- Pandas
- ROS
- Java
- Android SDK
- C
- Machine Learning
- Solidworks

Education

University of Washington: June 2022
B.A. in Geography: Data Science
Minor in Applied Mathematics
GPA: 3.53

Relevant Courses

Computer Programming 1&2, Web Programming, Data Programming, Data structures / Algorithms, Programming concepts and tools, Artificial Intelligence, Intro to Machine Learning, Intro to Mathematical Modelling, GIS Database Programming, Beginning Scientific Computing, Statistical Reasoning