Hieu Chau

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[Personal Website]

EDUCATION

Bachelor of Science | *Computer Science and Systems, Honors*   December 2021
Minor in Mathematics | *Annual Dean's List*   GPA: 3.80
University of Washington Tacoma, WA

TECHNICAL SKILLS

Languages: Javascript, Python, Java, HTML/CSS, SQL, C#, C++, C

Frameworks: ASP.NET MVC, Reactjs, Express.js/Node.js

Tools: VS Code, Jupyter Notebook, Visual Studios, Microsoft SSMS, Git, Git Bash, SourceTree

PROJECT EXPERIENCE

Research Honors | *Project: SmartStreet* | [*Thesis*]   Mar. 2021 – Dec. 2021
University of Washington Tacoma
- Investigated the current state-of-the-art Object Detection models such as YOLO and vision Transformer for the task of traffic sign symbols detection.
- Integrated popular Convolutional Neural Networks such as MobileNet and Xception with PyTorch to detect if a parking sign has a no parking or handicap symbol which achieved 95%+ accuracy.
- Optimized and validated models under limited data sources.
- Collaborated with school faculty and graduate students in the application development process.

Research Assistant | *Project: OSM Map Analysis on C# ASP.NET MVC* | [*Paper*]   June 2020 – Dec. 2020
University of Washington Tacoma, *paid internship in collaboration with Microsoft*
- Worked with Bing/Google/OpenStreetMap APIs to collect and maintain map data of major cities on an SQL Server.
- Utilized Bootstrap and JQuery libraries to design a dashboard to present back-end data.
- Managed application's stability and efficiency on both front and back-end.
- Collaborated in a group of 3-4 people to communicate with clients in Agile Development methodology.

Fusillade | *Javascript* | [*Deployment*]   Jan. 2021 – Mar. 2021
University of Washington Tacoma
- Led a team of 3 in development of a web-based game.
- Implemented various algorithms to procedurally generate levels.
- Designed user-centered visuals/features for the game.

Android Group Chat | *Java, Javascript* | [*Demo*]   Sep. 2020 – Dec. 2020
University of Washington Tacoma
- Developed an Android Application with a Node.js back-end in Express.js framework, and Java front-end.
- Utilized Imgur as an external image host to achieve contacts profile and image chatting.
- Implemented real-time messaging interactions through a Push Server.
- Maintained user information in an external SQL Database.

Probability Minesweeper | *Javascript* | [*Deployment*]   August 2020
Personal Project
- Built Minesweeper from scratch in Javascript as a browser game.
- Developed a devide-and-conquer algorithm to infer the best outcome of the game mostly within the timeframe of one second.
- Utilized JQuery to organize and inform the algorithm's result through a color-coded overlay.