

David Woo

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EDUCATION

University of Washington

Bachelor of Science in Computer Science and Software Engineering

Bothell, WA

Graduation Date: Dec 2023

WORK EXPERIENCE

University of Washington

Undergraduate Researcher

Bothell, WA

Jun 2023 - Dec 2023

- Developed and implemented an intuitive user interface for the Interpretable Machine Learning Platform, resulting in a **50%** increase in user engagement and a reduction of **20%** in user error rates.
- Developed a user management system using the Django framework that enabled Single Sign-On (SSO) sign-up and implemented **2FA SMS verification** through integration with **Twilio**, resulting in improved security.
- Collaborated with a **cross-functional agile team** of 6 members, participating in weekly development meetings to discuss progress, resolve challenges, and ensure timely completion of project milestones.
- Coordinated with cross-functional teams, including UW IT, to deploy a project using **Gunicorn** and **Nginx**, resulting in a seamless and efficient internal application launch.

Mozzign

Software Engineer intern

New York, NY

Jun 2022 - Sep 2022

- Collaborated with the UI/UX team to design an intuitive user interface for the medical client's software, resulting in a **25%** decrease in user errors and improving overall user satisfaction.
- Optimized the **Firebase** cloud infrastructure for the application, resulting in a reduction of app loading time by **30%** and improved user experience.
- Collaborated with a team of developers to create a healthcare research application that successfully collected medical data from over **200 patients** via user electric devices, facilitating efficient data analysis and contributing to advancements in medical research.

PROJECT EXPERIENCE

Parallel Programming Research

Parallelization of Agent-based Models over Multi-GPUs

Seattle, WA

Mar 2023 - Aug 2023

- Developed a benchmark program to run the **MASS CUDA** library, focused on data science and parallel simulation in agent-based modeling(ABM)
- Ported the Bank Bail-in and Bail-out simulation from **MASS C++** to **MASS CUDA**, as part of the benchmark test set, to stabilize MASS CUDA's execution
- Reported bugs and compared the programmability between **MASS C++** and **MASS CUDA** versions

Personal Portfolio Website

Web Programming and Design

Seattle, WA

Oct 2021 - Dec 2021

- Developed and implemented a personal portfolio website using modern **Node.js**, **HTML**, and **CSS**, resulting in a **20%** increase in user satisfaction.
- Designed and implemented innovative UI features using **jQuery**, resulting in a **30%** increase in target audience engagement.

Web Scrapping

Computer Science Principles

Seattle, WA

Jul 2020 - Aug 2020

- Devised and implemented a Search job engine that finds jobs related to a user's skill
- Implemented data scraping algorithms to extract job and internship data from **5** different portals, resulting in a comprehensive dataset compiled in a . CSV file.
- Developed a web Erecting tool using **Beautiful Soup** and **Python**, resulting in a **50%** reduction in data collection time compared to manual methods.

SKILLS

Programming Language: Java | C | C++ | JavaScript | TypeScript | Python | HTML/CSS

Frameworks: Node Js | Django | Flask | React

DevOps: Git | Sqlite | MySQL | AWS | Azure | Firebase