

ALEXANDER SITZMAN

Computer Science Major, Graduating 2024

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UNIVERSITY EXPERIENCE

Western Washington University

Computer Science Major

2021-2024 Bellingham WA

PROJECTS

- Virtual Internet: A hosted internet emulation used for training purposes
Building as part of a senior project group a virtual internet emulator to provide training on common internet attacks.
- Ravenous - Yelp API Website
Built as part of a webscripting class, the website interacts with the Yelp API and allows users to search for local businesses. Built in ReactJS, Node.js and MongoDB
- SURLY: A Single User Relational database
Built as part of a team project, created a program that can read files of SQL commands and simulate the storage and fetching of data, including high levels of relation manipulation.
- ToyOS: Emulated operating system for RISC-V architecture
Toy Operating System that manages processes and resources and interacts with a file system and a disk. Coded in C, C++ and a small amount of Assembly. Worked with memory addressing, low level system calls, user privilege levels, thread management, and file system structures

RELEVANT COURSEWORK

- Databases
Introduction to both database architecture and queries. Built SURLY and a Java program UI for accessing SQL databases remotely, with prepared statements.
- Webscripting
Course in website building and scripting. Covers topics such as ReactJS, NodeJS, MongoDB, and Figma
- Object Oriented Design
Introduction to design patterns from the "group of four" book on code design.
- Operating Systems & Device Drivers
Introduction to computer operating systems and hands on experience building a ToyOS.
Built and installed a PCI driver for both NetBSD and Windows environments
- Computer Networks
Introduction to TCP/IP protocols and internet layers. Gained experience with message synchronization in TCP protocol. Worked in C to create simple network games

WORK EXPERIENCE

Freelance Web Developer

Bellingham WA

2024

Built websites for local businesses in Bellingham WA while in school. My main customer is SeventhHeavenApples.com, whose website I manage
I have applied my knowledge of Search Engine Optimization and Web Design to create successful websites for my customers

Computer Science TA

Western Washington University

February 2024 – June 2024

Worked with instructors to grade assignments and run labs for the department

Computer Science Tutor

Western Washington University

February 2024 – June 2024

Provided CS tutoring to undergraduate students during office hours
Gained skills in teaching and communication as well as demonstrated my skills in CS

Restaurant Waitstaff

Duvall Tavern, Duvall WA

September 2020 – August 2022

Worked various position, based on need. Waited tables and interacted with customers, including on-call and shift based scheduling.
Gained experience with people skills and high stress environments

SKILLS

Driver Development: C, C++ ●●●●●●
Web Scripting: Python, React ●●●●●●
Object Oriented: C#, Java ●●●●●●
Database Administration: SQL ●●●●●●
Secure Software: Frameworks ●●●●●●