

Education

University of Oregon

Eugene, OR

B.S. Computer Science, Software Development. 3.7

Skills

Programming: C, C++, TypeScript, Python

Technologies: Git, HTML, CSS, Next.js, Node.js, Express, Flask, MongoDB, MySQL, PostgreSQL, Sequelize

Software: Figma, LucidChart, Office365

Experience

University of Oregon

Eugene, Oregon

Senior Student Audio-Visual Technician / Student Analyst Developer

September 2022 - Current

- Developed a full-stack web application enabling departmental data analytics in Typescript, using Vite, TailwindCSS, Node, React, and Sequelize. This application drastically sped up a process that was being done manually.
- Developed a command-line interface enabling parsing of CSV ticket data to create charts in Python.
- Deployed and helped configure 100+ managed ethernet switches on campus.

C/Unix/Data Structures Learning Assistant

March 2024 - June 2024, September 2023 - December 2023

- Provided one-on-one academic support to students, assisting with reinforcing C, Unix, and data structure concepts, and application of concepts in class projects.
- Collaborated with professor to align teaching strategies.
- Support included debugging student machines and code.

View Inc.

Olive Branch, Tennessee

Information Technology Associate, Intern

July 2021 - August 2021

- Set up a digital signage system for a departmental office space using Raspberry Pi devices.
- Assisted in loading software onto onboarding employees' machines.
- Diagnosed and troubleshooted hardware and software issues.

Projects

statistik

MySQL, React, Node.js, Sequelize, Vite, TailwindCSS, Typescript

- Full stack web application enabling caching of departmental ticket tasks for data analysis.
- Implemented a Vite, React, TailwindCSS, and Typescript frontend providing an interface to format and filter ticket data for analytical reports.
- Node, Typescript, and Sequelize backend provides REST API methods to update User and Ticket tables in a MySQL database.

tstat

Python3, matplotlib

- Statistical analysis command line tool built to display customizable chart or list views of data collected from a ticket-managing tool, enabling use of filters and report types.
- Utilized by the Audio Visual services for comprehensive reports and led to detection of patterns in faulty equipment.
- Acted as a proof-of-concept for approval of the Statistik project by department supervisors.

media-mind

TypeScript, React, Neo4j, Node.js

- Media logging tool focused on forming relationships between different media
- Utilizes the relationships formed to visualize a network of logged media

w-store

Python

- Implemented a database management system with Lineage-based columnar storage, B+ Tree indexing, and bufferpool management.
- Devised and implemented a B+ tree that supports versioning in-place, reducing the need for multiple indexes to maintain record lineage.