Peter Minsch

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EDUCATION

California State University of San Marcos   **San Marcos, CA**

Computer Science   Cumulative GPA: 3.6

Relevant Coursework: Data Structures and Algorithms, Object-Oriented Programming, Machine Learning, Databases, Operating Systems, Software Engineering, Networking, Cloud Computing

SKILLS

Programming Languages: C++, Python, Kotlin, Linux, Solidity, C#, JavaScript

Frameworks: ReactJS, ExpressJS, Hardhat

Database: PostgreSQL, MySQL

Web Development: HTML5, CSS, JavaScript

Operating System: Windows, Unix, Ubuntu

Version Control: Git, GitHub

Interpersonal: Leadership, Communication Management

Tools: VScode, AWS, Android Studio, Unity, Jira

PROJECTS

Sway App   *Unity3D, Python*
- VR app that allows users to see themselves on a raft swaying in the ocean
- Records and collects data from 2 different hardware outputs from the Force Plate and the VR headset
- Designed for balance rehabilitation for patients who lose their movement balance ability

ChainLearn   *Solidity, JavaScript, NodeJS, ExpressJS, ReactJS, Hardhat, Etherscan, PostgreSQL*
- Developed a decentralized web application for a tutor-finder service utilizing the Ethereum blockchain, smart contract functionality, and the hardhat framework
- Implemented secured pages and endpoints using common JWT practices, MVC pattern through ExpressJS and ReactJS, and secured smart contract functionality.

Vergil, AI Virtual Assistant   *JavaScript, NodeJS, ExpressJS, ReactJS, OpenAI, PostgreSQL*
- Designed a Virtual Assitant application for the LPL Financial Hackathon with a team of developers Functionalities include guiding the user through the LPL website and providing information about each subject
- Utilized the OpenAI api to implement a responsive chat bot that can navigate the website for the user

AI Music Generator   *C++*
- Implemented a random song generator utilizing the genetic algorithm and common music theory concepts such as chord progressions, pitch range, smoothness of transitions, and repetition

WORK EXPERIENCE

California State University of San Marcos   **San Marcos, CA**

Computer Science Tutor   April, 2023 - Present
- Provided 1 on 1 tutoring to 100+ students and created personalized lesson plans for students
- Tutor all lower division CS courses, teaching topics such as C++, OOP, Data Structures, MIPS Assembly, and Digital Circuits

California State University of San Marcos   **San Marcos, CA**

Treasurer for Society of Asian Scientists and Engineers   August, 2023 - Present
- Managed organization's funds, ensuring accurate financial transactions and budget allocation
- Provided leadership and mentorship to new members, fostering a cohesive and motivated team

Willing to obtain and hold a government security clearance