Ryan Frederich

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LinkedIn: https://www.linkedin.com/in/ryanfreder | GitHub: https://github.com/ryansurf

Education

University of California, Santa Cruz

Sep 2019 - Dec 2023

• B.S. Technology and Information Management (GPA: 3.5)

Minor: Computer Science

Employment

Web Development Intern

Callaway Golf

Jun 2023 - Sep 2023

- Developed and maintained CSS and JSP code for an eCommerce website
- Managed and created reusable components via SAP Backoffice
- Automated server startup and file compilation through custom bash scripts, streamlining processes

Computer Science Instructor

iD Tech

Sep 2022 - May 2023

- Teaching students computer science fundamentals using Python
- Explained basic data structures and object-oriented programming

Skills

- Languages: Python, C/C++, Javascript/HTML/CSS, Java, SQL, Bash
- Libraries and Frameworks: React, jQuery, Flask, Node.js
- Tools: Git, Linux, Docker, Vim, Eclipse
- Other: Computer networking experience(Mininet, Wireshark, Socket programming)

Projects

Personal Website: https://ryansurf.github.io/

Automated Irrigation System

- Built an enclosure with a microcontroller, solenoid valve and sensor to measure a garden's soil moisture levels.
- Wrote a program in C to detect if the soil moisture content fell below a given threshold, and triggered the solenoid
 valve to turn so the garden could be watered.

KillFeed Bot

https://github.com/ryansurf/killfeed_bot

- Discord bot that notifies a Discord server every time a player eliminates another player in Bohemia Interactive's shooter game *DayZ*.
- Parses the game's logs using Python's Requests library.
- Can also be pinged in Discord to output the amount of players currently online.

Ocean Data Reporter

https://github.com/rvansurf/Surf ScrapeV2

- Retrieves ocean data (wave height, tides, ocean and air temps) from buoys stationed along the coast, utilizing NOAA's buoy API.
- Sends a surf report via email to subscribing email addresses at a specified time using **cron** on a Raspberry Pi.
- Stores data in a database using MySQL for analysis of trends overtime.