

Ryan Frederickich

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Education

University of California, Santa Cruz

Dec 2023

- B.S. in Technology and Information Management
- Minor: Computer Science
- GPA: 3.34
- Honor Roll: Spring 2023, Winter 2021

Experience

Software Development Intern, Callaway Golf – San Diego, CA

June 2023 – Sept 2023

- Resolved functional issues and developed new components for a large eCommerce website using JavaScript, JSP and CSS, referencing Figma for design
- Developed Bash scripts to automate the local environment setup and code compilation, replacing manual developer workflows and reducing setup time by 30%
- Updated developer documentation in Confluence with detailed instructions for setting up the local environment, reducing setup-related issues for new developers and improving onboarding efficiency
- Utilized Agile development practices and Jira to efficiently manage and complete assigned tickets within short sprints

Computer Science Instructor, iD Tech – Remote

Sept 2022 – May 2023

- Taught computer science fundamentals using Python in both group settings (10+ students) and private lessons
- Explained basic data structures, algorithms, and object-oriented programming concepts
- Assisted students with existing assignments, providing help in debugging and completing their projects

Projects

CLI Surf Report | *Python, JavaScript, Tailwind CSS, Bash, Docker*

github.com/ryansurf/cli-surf

- Developed a full-stack customizable surf reporting & forecasting tool, pulling data from an open-source weather API and utilizing GPTs to give custom surf reports in JSON or a readable format
- Collaborated with over 10 developers, reviewed and merged pull requests, and helped contributors debug any errors
- Configured GitHub Actions to automate code quality checks and testing on push and pull requests, and set up an AI code reviewer for PRs

Technical Content Creator | *Python, Linux, Git, CI/CD*

<https://bit.ly/4c1aEyA>

- Developed and produced educational videos on technical concepts, including Python programming, Linux commands, and various IT topics
- Showcased the ability to communicate technical concepts to a non-technical audience, achieving 500+ views
- Planned, scripted, recorded and edited videos, managing multiple projects and consistently meeting self-imposed deadlines

HomeLab | *Python, YAML, Bash, Docker, Ansible, Networking*

ryansurf.github.io/network_diagram.html

- Implemented network-wide ad-blocking with a self-hosted DNS server in a Docker container, enhancing security and reducing unwanted content by 50%
- Self-hosted a secure VPN and integrated dynamic DNS, ensuring reliable access to the network from remote locations
- Configured VLANs on a router to separate guest traffic from the rest of the network using several switches
- Replaced home router with custom-built PC running routing/firewall software for enhanced network security

Skills

Languages: Python, C, C++, Bash, SQL, JavaScript, HTML, CSS

Tools: Git, Linux, Docker, Ansible, AWS, CI/CD (GitHub Actions), Flask, Jira, Confluence, Figma

Other: Unit testing, Virtualization, Networking, Firewalls, Wireshark