CARSON WEBSTER

carsonwebster.com

📞 619-302-8234 ✉ carsonwebster@hotmail.com in linkedin.com/in/carsonwebster ⌨ github.com/carsonwebster

Education

University of California, Santa Cruz　　　　　　　　　　　　　　　　　　　　　Sep. 2019 – June 2023
Bachelor of Science in Computer Science, minor in Technical Information Management　　　*Santa Cruz, California*

Certifications

Secret Level Security Clearance: February 2024

CompTIA Security+: June 2023 - 2026

Relevant Coursework

- Data Structures
- Web Applications
- Algorithms Analysis
- Database Systems
- Artificial Intelligence
- Computer Architecture
- Systems Design
- Technical Writing

Experience

Code Ninjas　　　　　　　　　　　　　　　　　　　　　　　　　　February 2019 – January 2020
Lead Tutor　　　　　　　　　　　　　　　　　　　　　　　　　　　　　*Chula Vista, California*
- Lead tutor in after school computer science game development program for children aged 7-14.
- Managed day to day store operations with my team.
- Summer camp lead teacher holding programming classes and other STEM activities.
- Developed prototype of a new pathway progress tracker used to notify us if a student beings to fall behind in curriculum.

City of Chula Vista　　　　　　　　　　　　　　　　　　　　　　November 2017 – January 2019
Lifeguard and Swim Instructor　　　　　　　　　　　　　　　　　　　　　*Chula Vista, California*
- Enforced pool safety rules, preformed rescues when required, and other operational tasks.
- Held swim classes with children 4-12 creating a fun, educational, and safe pool classroom environment.

Projects

ResumeWizard.tech | *Resume formatting assistant with LaTeX exporting and OpenAI integration*　　　**June 2023**
- Orchestrated a full stack Sveltekit application allowing users to optionally login with Oauth, create, and store resumes.
- Information is grammar corrected and touched up with OpenAI's GPT API and then neatly exported to a LaTeX formatted resume.
- Node server is sitting on a Linode cloud VPS next to Pocketbase service, both beind Nginx reverse proxy.
- Cruzhacks 2023 hackathon category winner

YowerzSecuritySuite | *Multi-functional Security Audit Tool*　　　　　　　　　　　**September 2023**
- Developing a multifunctional Golang command-line tool, featuring packaged modules for password strength analysis, base64 encoding/decoding, packet logger/ spoofer, honeypot, and command + control center.
- Demonstrated versatility and adaptability in software development by creating a modular tool capable of addressing a variety of cybersecurity and penetration testing challenges.
- Contributed to the open source cybersecurity community with an extensible tool that combines useful functionalities.

RustGuard | *High-Performance Intrusion Detection System*　　　　　　　　　　**Febuary 2024 - Current**
- Implemented a robust packet capture and analysis system in Rust using the pcap crate, ensuring efficient and secure network traffic monitoring.
- Developed a seamless and user-friendly interface for configuration and monitoring, utilizing SvelteKit for the web-based frontend and Tauri for the native desktop application.

Technical Skills

Languages: TypeScript, C, HTML/CSS, Rust, GoLang, Python, Bash, Powershell, SQL
Developer Tools: VS Code, NeoVim, Docker, Git, Google Cloud Platform, Amazon Web Services, Linode
Technologies/Frameworks: Linux, GitHub, Jenkins, Jira, React/Next, Svelte/Sveltekit, Metasploit, Burp Suite

Extracurricular

Slug Security　　　　　　　　　　　　　　　　　　　　　　　　　Winter 2022 - Spring 2023
Member　　　　　　　　　　　　　　　　　　　　　　　　*University of California, Santa Cruz*
- Played a key role in Slug Security's success, including a 2nd place finish in MITRE's 2023 Capture the Flag competition and UC Santa Cruz's 3rd place win in the 2022 NSA Codebreaker Challenge.
- Contributed to UCSC's 9th place finish in the 2022 CyberForce Competition as a member of Slug Security, showcasing teamwork and dedication to cybersecurity goals.