CARSON WEBSTER

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Education

University of California, Santa Cruz	**Sep. 2017 – May 2021**
Bachelor of Science in Computer Science	*Santa Cruz, California*

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*

- Developed a service to automatically perform a set of unit tests daily on a product in development in order to decrease time needed for team members to identify and fix bugs/issues.
- 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	**May 2019 – August 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 | *Typescript, SvelteKit, Linode VPS, Pocketbase, Nginx*	**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 | *GoLang, CLI*	**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.

OpenAI-GUI | *Rust, Tauri, Typescript, SvelteKit*	**Decemeber 2022**

- Developed a cross platform native application to configure and query requests from OpenAI API models in a chat like conversation format with persistent local storage.

Technical Skills

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

Extracurricular

Slug Security	**Winter 2022**
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.