**Zane Garvey**

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# **Education and Certifications**

**Oregon State University – B.S. Applied Computer Science, Minor – Psychology, In Progress** | 3.95 GPA, Dean’s List **2022 – 2026**

* Relevant coursework – Computer Architecture and Assembly Language, Analysis of Algorithms, Data Structures

and Algorithms, Software Engineering I, Intro to Computer Science II

**Google Cybersecurity Certificate** – Bash, Linux, Nano, Google Chronicle | [Verification](https://www.credly.com/badges/4d04cbca-b867-4997-ab0e-b39b00e379eb/public_url) **2024**

* Monitored and analyzed network traffic, capturing and analyzing packets using packets sniffers
* Used tools like TCPDump and Wireshark to capture and analyze network data
* Interpreted logs and alerts. Explored Suricata on the command line to read and understand signatures and rules.
* Used SIEM tools like Splunk and Chronicle to search for events and logs.
* Learned security frameworks: NIST (CSF and S.P.800-53), AAA, PASTA, CIA

**AWS Certified Solutions Architect** – In Progress **2024**

**CompTIA Sec+** – In Progress **2024**

# **Projects**

**Guitar Hub** – 2024 Oregon State Hackathon Winter | [GitHub Repository](https://github.com/HackerManOSU/OSUHackathonWinter2024) **01/2024**

***Technologies****: JavaScript, HTML, CSS, OpenAI Chat GPT API, Hugging Face Models*

* Constructed a guitar tuner from scratch, utilizing pure JavaScript without the aid of external libraries. Applied

mathematical formulas directly to analyze audio frequencies and accurately determine musical notes

* Developed a song recognition tool writing an audio input script in JavaScript, integrating OpenAI's GPT-4 model

for audio-to-text conversion, followed by a training algorithm to match lyrics with similar songs.

* Created a dynamic web application that generates SVG chord diagrams for various string instruments. Utilized asynchronous JavaScript to fetch and display chord data based on user-selected instrument and chord type.
* Incorporated two Hugging Face models to identify chords and genres from audio files. Designed the interface to display these analyses.

**Text Encrypter** – Symmetric Encryption Algorithm| [GitHub Repository](https://github.com/HackerManOSU/Keylogger) **05/2023**

***Technologies****: Python, PyTest,* ***Libraries****: hashlib, os*

* Python-based encryption system to demonstrate the fundamentals of symmetric encryption
* Designed the system to introduce users to block cipher encryption techniques, using SHA-256 for secure key

derivation with a static salt and implementing a basic XOR operation for encrypting and decrypting data

# **Experience**

**University IT Support and Technician** – Oregon State University **02/2024 – Present**

* Offered over the phone support to instructors/professors having technical difficulties, traveling to

rooms when needed. Helped install new technologies and replace hardware in classrooms

* Remotely accessed classroom technology, utilizing Crestron Fusion, ConnectWise, OvrC, and Direct IP Access
* Walked professors through fixes, and fixed the issues hands-on when necessary
* Created and logged tickets in TeamDynamix to track issues and keep tabs over time

**Maintenance Engineering Assistant** – Immigrant and Refugee Community Organization **06/2023 – 02/2024**

* General construction – plumbing, framing, finishing, demolition
* Full Kitchen remodel project

**Co-Owner** – Anvil Performance **2022 – Present**

* Designed, researched, and formulated product for manufacturing
* Extensively communicated with manufacturers, graphic designers, and legal personnel in a professional setting

# **Technical Skills**

* **Languages/Mark Up Languages**: JavaScript, CSS, Python, R, C, C++, HTML
* **Developer Tools/Software**: Microsoft Visual Studio Code, VIM, Nano, BASH, VS Code, Git, Github, JupyterLab, Figma, Microsoft Suite, XCode, Google Chronicle, TCPDump, WireShark, Suricata, Splunk