

Gauge Hartwell

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EDUCATION

Oregon State University

Bachelor of Science in Cybersecurity

Corvallis, OR

Sept. 2018 – June 2021

Chemeketa Community College

Associate's in Computer Science

Salem, OR

Sept. 2016 – June 2018

PROJECTS

Scapy Port Scanner | *Python, Scapy*

November 2020

- Created a port-scanning script in Python with the Scapy library
- Functionality is intended to replicate that of nmap
- Includes functions to find the top 100 tcp and udp ports on a target url (tested only on scanme.nmap.org)
- Also includes tcpConnect() scan function and a function for scanning a subnet within a given ip address or a range of ip addresses

Boats and Owners API | *Python, Flask, JavaScript, Google Cloud Platform*

December 2020

- Developed a web application using Flask serving a REST API
- Implemented Google OAuth to get user's credentials for API usage
- Used Postman API to test API functionality with around 100 requests, with at least two tests per request

Unity Fighting Game | *Unity 3D, C#, Git*

September 2020 – Present

- Developed a 3D fighting game in Unity 3D along with three of my colleagues
- Implemented several features including: Initial implementation of enemy and enemy AI, healing items, inventory system, pause menu, and player death menu
- Project worked on an Agile workflow basis, but then moved into a Waterfall workflow as it progressed, as Waterfall worked better for the purpose of the project
- Contributed at least 80% of project documentation in the form of readme files and code references

Password Strength Checker | *Python*

December 2020

- Developed a password strength checking tool in Python that computes the bits of entropy of a given password

Dominion card game | *C, C++*

September 2019 – December 2019

- Developed code for opponent logic within the card game
- Developed code for five card within the game
- wrote unit and random tests for both opponent AI and correct card function

TECHNICAL SKILLS

Languages: C, C++, Python

Frameworks: Flask, WordPress, Scapy

Developer Tools: Git, Docker, Google Cloud Platform, VS Code, Visual Studio

General Tools: Wireshark, VMware, Proxmox

Libraries: NumPy, Google OAuth2.0