



Projects

Google Pi

Decided to build a virtual assistant instead of buying one. Built on a raspberry pi 3 using old accessories lying around the house such as a webcam, and a speaker. I was able to learn bash scripting, commands and link up to Google's open-source AI virtual assistant.

Flappy Bird

A popular game in 2013 that moves the player through pipes without hitting them. I wanted to apply my C# OOP skills to develop this game and also learn Javascript

ePortfolio (ASP.NET, HTML, CSS, Javascript)

I created my personal website using ASP.NET to express myself to people who are interested in collaborating. Learn more about me, view my progress and skills.

Tank Battle (C#, OOP)

Developed a game where multiple tanks try to hit each other out of the map. This project helped me developed my software developing and programming skills. Developing this game was a way for me to learn C# and become proficient with it.

Online Shopper (Python, HTML, CSS, MySQL, Regex)

Developed an online shopping program using python. Extracted information from websites using regex, stored it in the database and displayed the information on a python GUI for users to select. Once user is happy with the selection, the program calculates the total cost and generates a HTML page for the invoice.

Music School (Django, MySQL, Javascript)

As a team, we developed a web app for a music school. The website featured user accounts for student and teachers, a booking system for music lessons, and a purchase plan for hiring instrcuments. My role in the project was scrum master and developer.

NestedOS (Bash, Wordpress, Web & Network Security, HTML, CSS, Docker)

Software developer part of a startup called NestedOS. Developed a web app for hosting operating systems in a website. Moved product to docker and deployed in AWS. Managed network and security with penetration testing, setting rules, intrusion detections, port-forwarding, and scripts. Developed WordPress website to display information about the company.

Internal Network setup

Set up two small networks (external and internal) consisting three VMs running ubuntu servers and one running ubuntu Desktop. The external network had an external router and a DMZ server. The internal network had an internal router and a Desktop. I set up a forwarding web proxy on the internal router with squid. Firewall configuration with iptables on the external and internal routers. Configured port-forwarding. Generated keys and certificate for openVPN connection to the internal network. Set up LDAP directory services (openLDAP) and apache on the DMZ server. Configured SSH server with key authentication. Generated keys. Set up intrusion detection system using snort.

Activities

ClipChamp Hackathon 2018 (With Honourable mention by Steve Baxter)

The topic of this event was to hack the web browser. With a group of five, our focus was to allow people to access multiple desktop environments through a web browser/cloud. We found that having this technology would help millions of students pay a thousand or two for more hardware. We developed this system to run operating systems like Linux, Windows, and macOS) on a web browser. This event helped me learn more about setting up servers, networks, bash commands, and more web development knowledge. We got an honorable mention by Steve Baxter and had a meetup with his TLI companys for opportunities.

CySCA Challenge 2018

This event had several hacking challenges including web-app pentest, corporate network pentest, detect & defend, and more. Our objective was to obtain as many flags as possible for points. I was in QUT team 4 competing with other university teams in Australia and placed 60th overall.

Brisbane Meetups

I have been attending multiple events to learn more. It started from a friend who brought me to a WordPress event. it helped me get a clearer understanding of the concept. I found this event interested and looked up the website to find other groups and events. I decided to attend more bcause this was a great opportunity for me to cover more things I didn't know. Also grasp more information that university hasn't. These events are great opportunities to network with people, explore and increase my knowledge. From these events, I was able to learn Javascript, Ruby on Rails, ASP.NET, and WordPress.