

Adrian McFarlane

[Github](#)

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Skills

Programming	Administration	Web Technologies	Service Technician
Python	Linux	HTML/CSS	Diagnosing Issues
Go	Windows	REST APIs	Choosing Hardware
JavaScript	Systemd Services	Nginx reverse proxy	Building Desktops
SQL	Terraform	Cloud Hosting(AWS, Google)	Laptop Repair
Bash	Proxmox VE	Firewalls	Phone Repair
PowerShell	Docker	VLAN configuration	Data Backups
Groovy	Jenkins	DHCP configuration	Installing Networks

Experience

Safe Software – DevOps Engineer Intern

(Jan 2022 – Sept 2022)

- Worked in a team responsible for automating Build and Test for a large cross-platform C++ application.
- Automated tasks using PowerShell, Jenkins, Bash, Python, Groovy and Jenkins.
- Deployed IncrediBuild network build accelerator in CI services to massively improve build times and minimize feedback time for developers.
- Used HashiCorp packer to automate creation of base windows AMIs for build and test machines.
- Provided prompt troubleshooting of build services and provided updates to internal developers.
- Experimented with massively parallel builds during company hackathon using ILMAC++, a drop-in replacement for gcc that compiles in AWS lambda serverless.

Encepta - Field Technician

(June 2021 – Aug 2021)

- Conducted field audits of client telecommunications equipment data and updated to match what was seen in the field.
- Used GIS mapping software to match location coordinates from data with real world devices.
- Identified and photographed devices to mark faulty units needing replacement.
- Independently managed schedule and routes to ensure project deadlines were met.

Evergreen Computers - IT Service Technician

(Jan 2020 – Sept 2020)

- Diagnosed, serviced, replaced parts, and made suggestions of potential solutions to customers regarding the hardware or software of their computers.
- Created parts lists and built custom desktop computers based on customer's needs and abilities.
- Wrote PowerShell scripts to automate repetitive processes and lower service turnaround times. These scripts are now used by management and all new employees as part of new company procedures.
- Created new company data backup and recovery procedures to prevent customer data loss
- Provided in depth troubleshooting and service to managed service clients

Starbucks Grouse Mountain- Supervisor

(Dec 2014 – Dec 2016)

- Lead groups of baristas to success in the busiest Starbucks in Western Canada, often with over \$15,000 in daily sales.

Education

British Columbia Institute of Technology

Computer Information Technology Diploma - 90% GPA

Sept 2020 - Present (Graduating May 2022)

Projects

Statify - [Spotify Statistics](#) (May 2021)

- Worked in a team organized using the scrum framework to design and build a website that allows users to view their hidden Spotify statistics.
- Acted as the product owner and was responsible for the overall vision of the project, developing user stories and assigning these tasks to team members.
- Developed a server backend using JavaScript, express, passport authentication, and EJS template pages.
- Implemented a continuous integration pipeline using CircleCI to run a suite of unit tests on every commit/pull request.
- Configured a continuous delivery pipeline using Github actions to automatically build a docker image and deploy to google cloud on every commit to the master branch.

Blackjack - [Card Game](#) and [REST API](#) (April 2021)

- Developed a Blackjack game using python and pygame
- Designed the game display and logic to follow the Model-View-Controller architecture pattern.
- Created a REST API using flask that allows the game to report the details of all most recent hands.
- Created a website to view data about the most recent reported hands, including the player who won and their earnings.

Home Server - [Proxmox Virtual Environment](#) (Nov 2020 - Ongoing)

- Designed and built a server using hardware optimized for virtualization, data storage, and media streaming.
- Configured Proxmox VE and managed a suite of LXC and docker containers to run services for file downloading, storage, and streaming.
- Hosted personal websites and game servers and configured port forwarding and DNS options for each.
- Created a Terraform module that allows a user to provision resources on the server using infrastructure as code.