

Adrian McFarlane

[Github](#)

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Skills

| Programming | Administration | Web Technologies |
|-------------|----------------|----------------------------|
| Python | Linux | HTML/CSS |
| Go | Windows | REST APIs |
| JavaScript | Systemd | Nginx |
| SQL | Terraform | Cloud Hosting(AWS, Google) |
| Bash | Proxmox VE | Firewalls(ufw, iptables) |
| PowerShell | Docker | VLAN configuration |
| Groovy | Jenkins | DHCP configuration |
| HCL | Kubernetes | Building Microservices |

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, 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 ILLMAC++, 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 small suite of PowerShell scripts to automate repetitive processes and lower service turnaround times. These scripts are now used by management and new employees as part of 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

Social Something - [Cloud Deployment project](#) (May 2021)

- Deployed a fully scalable web application on AWS with Terraform and Packer for optional final project in cloud computing course.
- Created an always-on service for a NodeJS backend using a systemd service file and environment variables.
- Automated the creation of base AMIs for backend service using Packer and Bash.
- Configured CloudWatch log aggregation in base images for centralized logging in the AWS dashboard
- Used Terraform to describe and deploy distributed application infrastructure on AWS via a Load balancer connected to an EC2 Auto-Scaling group spread across subnets and AZs. Infrastructure also included an S3 bucket for image storage, Managed RDS as a database, IAM roles with restricted access, and route 53 configured to encrypt all endpoints with HTTPS.

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.
- Used the Proxmox terraform module to describe and deploy LXC containers with cloud-init and bash.