

# PHILIP DUSHIE, PGCert, BSc.

Full Stack Developer

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Dedicated IT professional with over five years of experience in systems administration, technical support, and full stack application development. Skilled at designing and building highly responsive websites and web applications.

## Core Skills

Web Design: HTML, CSS, JavaScript,  
Database Administration: MySQL,  
PostgreSQL, MSSQL,  
Network Administration: LANs, VLANs,  
WLAN,  
Network Security: Firewalls, Network  
Monitoring, Data Protection,  
Operating Systems: Linux, Windows,  
MacOS,  
Virtualization: VMWare, Hyper-V, VirtualBox,  
Office 365,  
Technical Troubleshooting : Hardware,  
software,  
Project Management : Project Planning,  
executing, managing IT projects,  
Software & Hardware : Installation,  
configuration, maintenance,  
Training: IT System training,  
Teamwork, Time Management

## Education

### Nova Scotia Community College

Sep 2023 - May 2024

#### Graduate Certificate

IT Programming for Artificial Intelligence

### Kwame Nkrumah University of Science and Technology

Jun 2010

#### Bachelor of Science

Computer Engineering

## Languages

English (*Proficient*)

## Work Experience

### Systems Administrator Intern

Apr 2024 - May 2024

[Online Job Market](#) | Halifax

- Provided comprehensive technical support and assistance, ensuring optimal operation of the organization's web services.
- Successfully migrated Online Job Market's web platform from Apache to Nginx with 99.8% uptime.
- Implemented security strategies to harden and secure web infrastructure.
- Installed, configured, and maintained desktop hardware and software applications for over 100 users.
- Automated tasks for software updates and backups to ensure business solutions and systems were current and secure.

### IT Systems Administrator

Dec 2014 - Aug 2023

[Nursing and Midwifery Council Of Ghana](#) | Accra

- Delivered customer service-focused technical support to over 200 employees in a fast-paced dynamic work environment.
- Installed, configured, and updated desktops, laptops, peripherals, and software applications.
- Conducted troubleshooting and diagnosis of hardware and software problems, ensuring timely resolution of user problems.
- Documented support activities and solutions for future reference.
- Participated in on-call rotations for after-hours support.

## Projects

### Responsive Website Design for Acme Adventure Travel

Oct 2024 - Oct  
2024

Designed and built a responsive and mobile friendly website for Acme Adventure Travel. Design was done purely with HTML and CSS from the scratch.

- Developed a website for Acme Adventure Travel using HTML/CSS.
- Website was designed to be highly responsive and mobile friendly.
- Successfully configured Apache web server on Amazon web services to host the website.
- To ensure data protection, SSL certificate was applied to the website.

## Certificates

### Cisco Certified Network Associate (CCNA)

*Cisco*

### IPTL Certified Engineer

*IP Technology Labs, USA*

### Nova Scotia Class 5 Drivers License

## Air Quality Index Prediction App

Apr 2024 - Apr 2024

Designed and built an app to predict the air quality index using decision tree regression.

- Developed an HTML/CSS front-end to receive user inputs and pass them to the backend to predict the AQI.
- Developed a Flask backend that provided API endpoints to receive inputs.
- The model was a Decision Tree Regression model trained on US air pollution data from the year 2000 to 2016.
- Achieved 98% prediction accuracy on test data and 94% on training data in predicting Air Quality Index.

## LLM Optimization

Apr 2024 - May 2024

Fine tuned the Llama 2-7b model to become an expert in job search and interview skills.

- Built and fine-tuned the Llama 2 model using Retrieval Augmented Generation (RAG).
- The model was optimized to be able to provide guidelines in the fields of job searching and interviewing.
- Successfully deployed the model to the Google Colab cloud platform and made it publicly accessible.