

Ayo J. Awoyelu

B.A.Sc. | COMPUTER ENGINEERING | GRADUATION WITH DISTINCTION

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Education

University of Waterloo

BACHELOR OF APPLIED SCIENCE IN COMPUTER ENGINEERING WITH DISTINCTION

Distributed Systems, Data Engineering, RESTful API Design, Software Design and Architectures, Database Systems

Waterloo, Ontario

Sep 2015 - Apr 2020

Skills

Languages

Python, GraphQL, JavaScript, TypeScript, C, Ruby, MySQL, PostgreSQL, Scala

Frameworks/Platforms

PySpark, Pyramid, Node.js, Redis, Apache Spark, Hadoop, pyATS, Apache Thrift

Development Tools

Git, Jenkins, Grafana, Splunk, Docker, AWS EC2, Elasticsearch, AWS Redshift, AWS S3

Experience

Yelp

Toronto, Ontario

SOFTWARE ENGINEER

Sep 2022 - Apr 2024

- Migrated Yelp's event search infrastructure from Elasticsearch to a **Near Real-Time Search Engine**, significantly reducing engineering costs
- Designed ETL pipelines using PySpark, AWS S3 and AWS Redshift **to drive targeted marketing campaigns for various Yelp user segments**
- Improved Yelp's media moderation system, **enhancing user experience and safety by allowing users to flag inappropriate content**
- Patched critical vulnerabilities in outdated Python package modules, **bolstering the security of Yelp services**
- Enhanced Yelp's in-app recommendation suggestions to **effectively boost user contributions** by filtering machine learning signals

Cisco Systems Canada

Kanata, Ontario

SOFTWARE ENGINEER

Dec 2020 - Sep 2022

- Developed an automation pipeline in **Jenkins** to execute nightly **pyATS** testcases on Cisco virtual and hardware IOSXE Devices
- Improved Switch Security features by **enhancing existing functionality, adding unit tests, and refining debug log messages** with C
- Built out **pyATS** testcases to test out switch networking security features with **C** and **Python**
- Designed modular **Jinja** templates to automatically configure testbed topology devices and verify ARP/IP Spoofing prevention features
- Enhanced and expanded layer 3 virtual routing and forwarding (VRF) features as part of Cisco's IOS BGP Service Provider team

Twine

San Francisco, California

BACKEND ENGINEERING INTERN

Sep 2019 - Dec 2019

- Developed core features of the Twine **Rails** app, and improved test coverage with **RSpec**
- Implemented 2FA with phone numbers in Twine's authentication service to enhance user security using **Devise** and **Twilio**
- Increased customer success team efficiency with the implementation of new support portal views, and customizable user account queries

Lifion, By ADP

New York, New York

PLATFORM ENGINEERING INTERN

Jan 2019 - Apr 2019

- Designed parts of an authorization system with **Node.js**, **Redis** and **MySQL** to enforce data-scoping rules and assign security groups
- Developed a data access layer with **Node.js** and **IORedis** to perform CRUD operations on **Redis** to handle security records
- Built out integration and unit tests for an application within the Lifion Platform using **Chai.js** and **Mocha**
- Integrated **DataDog** metrics to display various API endpoint statistics on different development environments
- Updated **Jenkins** continuous integration and build pipelines to display **JUnit** test results as a success graph and XML file

Condos.ca

Toronto, Ontario

FULL STACK DEVELOPER INTERN

May 2018 - Aug 2018

- Developed a recommendation engine to populate listing data based on **500,000+** historical records
- Built infrastructure to filter **30,000+** condo listings by proximity to a major intersection with **MySQL** and **Laravel**
- Created RESTful API endpoints with **Lumen** to securely provide resources to the client application
- Designed multiple CMS components for managing sensitive employee records with **AWS S3**, **Lumen** and **Docker**
- Integrated multiple third-party API services including **Yelp** and **Google Places** APIs to automatically create descriptions for listings

SkyWatch Space Applications Inc.

Waterloo, Ontario

FRONT END ENGINEERING INTERN

Sep 2017 - Dec 2017

- Built responsive login and signup forms with **HTML5**, **CSS3**, and **JavaScript** by customizing **Auth0.js** hosted pages
- Utilized **NgRx store** to reduce request overhead for image output format selection, restricting requests to **1 per page load**
- Developed the end-to-end tests for SkyWatch's **EarthCache™** software with **Protractor** significantly reducing test time
- Designed reusable dashboard components to visualize pipeline data with **Angular 4**, **Typescript** and **NgRx**
- Implemented **Angular** optimization techniques like **Lazy loading** and **Ahead of Time** compilation significantly reducing build time