Ayo J. Awoyelu

B.A.Sc. | Computer Engineering | Graduation with Distinction

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Skills

Languages	Python3, JavaScript, GraphQL, C, TypeScript, Java
Frameworks/Platforms	Elasticsearch/Lucene, PySpark, Pyramid, Redis, Kafka,
Development Tools	PostgreSQL, Jenkins, Grafana, Splunk, Docker, AWS EC2, AWS Redhsift, AWS S3

Work Experience

Yelp
Toronto, Ontario
Software Engineer II
Sep 2022 - Apr 2024

- Migrated the search infrastructure for Yelp events from Elasticsearch to a **Near Real-Time Search Engine**, reducing engineering costs by **40%**
- Designed ETL pipelines with PySpark, AWS S3 and AWS Redshift **to drive targeted marketing campaigns for various Yelp user segments**
- Executed Yelp's media moderation system, **enhancing user experience and safety by allowing users to flag inappropriate content**
- Enhanced **Engineering Effectiveness (EE)** across Yelp services by auditing and patching outdated Python packages and modules
- Leveraged Cassandra and Kevel Ad Server to **enhance Yelp's in-app ad suggestions** by filtering out machine learning signals

Cisco
Kanata, Ontario
Software Engineer
Dec 2020 - Sep 2022

- Developed an automation pipeline in **Jenkins** to execute daily **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 XR 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 mobile SMS in Twine's authentication service to enhance user security using **Devise** and **Twilio**
- Improved customer experience by implementing new support portal views, and customizable user account queries to effectively tackle issues

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

Education

University of Waterloo
Waterloo, Ontario
Bachelor of Applied Science in Computer Engineering with Distinction
Sep 2015 - Apr 2020

Backend System Design, Distributed Computing, Software Design and Architecture, Database Systems, InterNetworking Operating Systems