Abdalla Sarhan

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EDUCATION

YORK UNIVERSITY | B.Eng., Spec. Hons. Computer Engineering

September 2020 - April 2025

EXPERIENCE

SUN LIFE FINANCIAL | SOFTWARE ENGINEER INTERN

September 2023 - December 2023 | Toronto, ON

- Conducted **penetration testing** on Sun Life's infrastructure and web applications, utilizing **Burp Suite**, resulting in the identification and remediation of **100's of potential vulnerabilities** to enhance overall system security.
- Collaborated with senior software engineers to develop a Proof of Concept for malware protection, focusing on preventing malicious file uploads. Leveraged Akamai's robust capabilities to fortify the application's security.

SUN LIFE FINANCIAL | INFRASTRUCTURE SOLUTION ARCHITECT CO-OP

May 2023 - August 2023 | Toronto, ON

- Containerized a Java application using **Docker**, increasing its **portability**. Orchestrated deployment on **Red Hat OpenShift** using **YAML**. Gaining expertise in configuration file creation for efficient **resource management** and seamless **communication between components**.
- Created proof of concepts using AWS services such as AWS Lambda, Amazon Lex, and Amazon Connect.

BITSPIRE INC | SOFTWARE ENGINEER INTERN

May 2022 - August 2022 | Toronto, ON

- Developed and improved existing components on web applications using Gatsby, TypeScript, and Recoil.
- Migrated an Apache Pulsar microservice from **Node.JS** to **Scala and ZIO** to improve overall performance of the application. Implemented both producer and consumer components following the **publish-subscribe messaging pattern**.
- Created an internal tool which accelerated the development of react forms by 2 times with easy ways to update and store form data using JSON schemas.

PROJECTS

CAMPUNITY | FULL STACK MOBILE APP | University buy and sell marketplace | React Native, Firebase |

- Developed frontend using **React Native CLI** and **Firebase** for the backend (Firestore, Storage, Authentication).
- Used Firestore to read and write users data, posts, and services. Leveraged Firebase Storage for storing images.
- Utilized Custom Hooks with React Context for different categories of data such as products, services, users.

AIRBNB BACKEND CLONE | BACKEND APPLICATION | AirBnB backend clone | NestJS, MongoDB, Docker | 🖸

- Developed using **microservice architecture**, keeping maintainability and scalability in mind. Containerized each application separately using **Docker** for deployment flexibility.
- Key features include user authentication, reservation management, payment processing with **Stripe**, and email notifications with **Nodemailer**.

STUDENTHUB | FULL STACK WEB APP | Student management system | Spring Boot, AWS, Docker, Postgres | 🖸

- Created a web application using Java Spring Boot following the MVC design pattern.
- Purpose: Experimenting with deployment on AWS Elastic Beanstalk and containerization using Docker.

GEOSNAP | FULL STACK MOBILE APP | Image sharing map app | React Native, Node.JS, MongoDB, S3, MapBox | O

TECHNICAL SKILLS

PROGRAMMING LANGUAGES

Java • Python • C • JavaScript/TypeScript • YAML

TOOLS & FRAMEWORKS

React/React Native • Node.js • Spring Boot

• Kubernetes • AWS • Bash • Docker

EXTRACURRICULAR

- VP Communications | York Engineering Competition
- Software Developer | Lassonde Blockchain Association
- Member | Google Developer Student Club
- **Tutoring** | Helping student's build real world projects and tying it back to academics