

# Abdul Haqani

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## EDUCATION

### **University of Ottawa**

BSc in Computing Technology &  
BASc Biomedical Mechanical  
Engineering with distinction

## COURSEWORK

### **Official Courses**

Data Structures and Algorithms  
Operating Systems  
Discrete Mathematics  
Advanced Programming Concepts C++  
Computer Architecture  
Probability and Statistics for  
Engineers  
Programming Paradigms  
Operating Systems  
Databases

### **Online Courses**

The Complete Ruby on Rails  
Developer Course  
Node.js, Express & MongoDB Dev to  
Deployment  
React Front to Back  
Python Django Dev to Deployment  
Basics of GraphQL with Ruby on  
Rails

## SKILLS

### **Languages and Skills**

Python • JavaScript • Ruby • Go •  
Java • C/C++ • Full Stack / app  
development • HTML • CSS/SCSS •  
JSX • JSON • XML • JQuery • AI/ML •  
MongoDB • PostgreSQL • SQL/MX •  
Firebase • MySQL

### **Frameworks and Tools**

NodeJS • Express • React • AWS  
• Ruby on Rails • Django •  
Android Studio • Bootstrap •  
Semantic UI • Materialize-css •  
Git • Windows • Linux • Docker &  
Kubernetes

### **Github:**

<https://github.com/abduhaqani>

**Website:** <https://ahaqani.com>

### **LinkedIn:**

<https://linkedin.com/in/abduhrahman-haqani-173a5611b/>

\* Additional experience can be given on request \*

## WORK EXPERIENCE

### **Qlik** | Software Engineer

April 2022 – Present | Ottawa, ON

- Developed **back-end** solutions using **nodejs** and **go**
- Utilized **AWS lambdas** to implement different **APIs** and **triggers**.
- Developed **front-end** solutions using **React**.
- Created **full-stack** solutions using the aforementioned tools.

### **CIBC Payment Hub Team** | Software Engineer

November 2020 – April 2022 | Toronto, ON

- Used **Golang** to implement **JSON APIs** for payment processing.
- Implemented a Payment Processing system in conjunction with VISA to send money from 1 client to another (person or business).
- Developed automated programs to manage high frequency processes.

### **Statistics Canada** | Software Developer

January 2019 – April 2020 | Ottawa, ON

- Used python to perform **data science** and **analysis** for various tasks.
- Developed **MERN Stack REST APIs** to integrate an existing **SQL** db.
- Developed software solutions using **C++** and **Java** for various projects.

## ADDITIONAL EXPERIENCE

### **Mercury Scraping** | Django freelance project

Developed a full stack app with a **Python Django PostgreSQL** stack with a colleague that uses **web scrapers** to pull data from various social medias and perform analytics on it. The data and web scrapers were **interfaced with the application** to display to the users. The purpose of the application is to allow journalists to send requests for public sentiment data.

### **CuHacking JetBrains Challenge Winner** | EcoSNAP Android App

Developed an application to satisfy the challenge, using **Kotlin** in the implementation of the app. The application **interfaced with the camera** on a phone and sent pictures taken to an **image recognition AI** that differentiates recyclable elements in the picture. The AI then instructs the user whether the object in the picture is recyclable or not, and it also **instructs them how to recycle** the specific object. (ex. Batteries recycled differently than cardboard) A leaderboard was also implemented that communicates with a firebase database.

### **Koga Studios Website** | PERN stack freelance project

Developing a **full stack web application** for the Ottawa based music collective named Koga Studios. The website highlights the best of the collective using a modern **React front end**, **node express backend** all while using a **PostgreSQL** db to manage the site's online **merchandise**. This application is currently under development.

### **Computational Fluid Mechanics Model** | C++

Used **C++** to develop a program which models the air flow around the wing of an aircraft moving near the speed of sound with different angles of attacks. This program was developed to run **efficiently** as the run time for the application can last for days when run with high accuracy. The application used **Numerical methods** and complex mathematics and **algorithms** to model the flow effectively.