

# Axel Mukwena

COMPUTER SCIENCE GRADUATE

## Professional Summary

A data-driven Computer Science graduate, self-motivated and confidently skilled programmer with a great ambition to help solve problems collectively and sustainably. My core strengths include **Data Analysis and Application Development**.

## Working Experience

### Go Developer (Remote, Contract), Ockham Labs Inc, Toronto

Jan 2022 - Present

- Developing Go-based frameworks to integrate with client app and APIs.
- Automate and abstract cloud asset inventory accross cloud providers using SQL, Go, Ruby RESTful API.

### Software Developer Intern, University of Macau, Macau

Jun 2020 - Sep 2020

- Collaboratively designed and implemented interfaces for a Residential College Management System using **C# and the .NET framework**
- **Established a 100% uptime server framework** that allows local and private access to the data

### Summer Research Assistant, University of Macau, Macau

Jun 2020 - Jul 2020

- **Gather resources for research papers** on the applications of Behavioral Science to Machine Learning.
- **Proofing, editing, and reference matching assurance** on research work.

### iOS Developer (Remote), Preter Studio, Australia

Apr 2020 - Jun 2020

- Single-handedly developed a **Bluetooth mobile application in Swift** to remotely control portable speakers and update embedded software.
- Developed a **prototype** to simulate the application in **C++ using a Developmental Board** customized to adapt the portable speaker's internal workings

## Education

### Bachelor of Science in Computer Science, Computer Science

Aug 2017 - Jun 2021

Turn over to the next page

## Contact Details

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## Current Address

Macao SAR

## Nationality

Namibian

## Links

[github.com/axelmukwena](https://github.com/axelmukwena)

[elaka.io/about](https://elaka.io/about)

[linkedin.com/in/axelmukwena](https://linkedin.com/in/axelmukwena)

## Programming & Scripting

Python, Go, C++, SQL, Java,

Ruby, JavaScript, C#

## Tools

BigQuery, Tensorflow,  
Apache Spark, D3, AWS

Fast API, Ruby on Rails, Vue,  
React, Bootstrap

## Skills

Organisational  
Adaptability  
Collaboration

## Languages

English (Native)  
Oshiwambo (Native)

## Projects

### Final Year Project: ECG Biometrics using Deep Learning

*Aug 2020 — May 2021*

- Successfully implemented a **novel Deep Learning model** for human identification based on ECG signals **using Siamese and Convolutional Neural Networks on TensorFlow**.
- Developed a **client web framework in Ruby on Rails** to access the deployed models on a **Flask-based API** and simulate the ECG Biometric workflow.
- <https://github.com/axelmukwena/biometricECG#academic-report>

### English - Oshiwambo Translation Community Application

*May 2020 - Present*

- Developing an Oshindonga Textual Dataset  
<https://github.com/meyabase/osheng-articles>
- Developed and successfully deployed a **fully functional bilingual language translation community-driven web application using Ruby on Rails** for English - Oshiwambo at [www.elaka.io](http://www.elaka.io). More information at [www.elaka.io/about](http://www.elaka.io/about)
- Managed to source more than **30000 contextually rich translation pairs** from **more than 700 users**. The project now **has 2 additional software contributors**

## Open Source and Contributions

### Member of Macao Startup Club, Macau

*Feb 2019 - Present*

- Helped facilitate and guide emerging tech entrepreneurs by **partaking in hackathons, networking seminars and workshops**.
- Intensively **developed and collaborated** on various projects in **hackathons aiming at making Macau a Smart City**.

### Product Developing and Consultancy

*May 2016 - Present*

- On a freelance basis, **developed marketable products** for numerous SME brands
- Developed **websites and e-commerce platforms** for SMEs
- More information is available upon request

## Grants and Scholarships

### Macao Foundation Scholarship

*Aug 2017 - Jun 2021*