

Tumo Masire, FullStack Developer

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PROFESSIONAL SUMMARY

A human-oriented **Software and Full-Stack Web Developer** with over 4 years of programming experience and 3 loves: problem solving and logical thinking, breaking things down, and building things up! A lifelong learner that is always looking to improve and grow themselves through online learning and experience, while contributing and helping others where he can. I have a passion for technology, data science, and Africa's future potential to contribute in these spaces!

Professional Skills and Interests:

- **Software Engineering and Development**
- **Frontend & Backend Development**
- **Data Science and Data Analytics**
- **RESTful APIs and Web Scrapping**
- **Database Administration**
- **Deployment and Build Automation**

EDUCATION

Bachelor of Social Science in Economics and Computer Science.

University of Cape Town (Cape Town, South Africa), *Feb. 2018 – Jan. 2021*

- Gold UCT Plus Award, Leadership Track – 2020
- Notable Course Work: Data Structures and Algorithms 1 and 2, Computer Architecture, Databases, Operating Systems 1 & 2, Systems Analysis, Systems Design & Development, Electronic Commerce, Mobile Application Development, Study Design & Data Analysis for Scientists, Game Theory.
- Class Representative for 10 Courses – MAM1010, MAM1008, POL1004, CSC1015, INF1002, INF2007, INF2009, ECO2003, ECO3020, ECO3021

GCE A-Levels (CIE Exam Board).

St Johns College (Johannesburg, South Africa), *Feb. 2016 - Nov. 2017*

- Gold Presidents Award – 2017. The Duke of Edinburgh Award
- The Vita Award – 2017. Awarded for the most extracurricular contribution in the cohort
- Level 3 First Aid Certification and First Aid Half-Colors – 2017

Additional Training (Personal):

- **Foundations of data science**, Microsoft, **Microsoft Learn** – Feb 2021
- **Software Development Engineer Learning Path**, AWS, **AWS Educate** – Aug 2020
- **The Complete Web Developer in 2020: Zero to Mastery**, *Andrei Neagoie*, **Udemy** – Jan 2020
- **Machine Learning**, *Stanford*, **Coursera** – Feb 2019
- **Google IT Support Professional Certificate**, a 5-course specialization, *Google*, **Coursera** – Feb 2019

PROFESSIONAL AND WORK EXPERIENCE

University of Cape Town (*Part-Time*)

Feb 2019 – Jun. 2020, Feb 2021 – Jun 2020

University Computer Science Tutor (2019-20, 2021) and Hotseat Tutor (Feb. 2020 – Jun. 2020)

- Assisted students with logical thinking and with debugging code for assignments.
- Working in a **Linux** environment to compile and mark student code.
- Invigilated and Marked student tests and assignments to help the course progress.

Botswana Presidential Covid Task Force (*Internship*)

Dec. 2020 – Feb. 2021

Software Engineer

Rapid application development to meet the needs of the Presidential Covid Task Force.

- Used **React** to create an interactive "Movement" visualization map from an input Excel File

- Ported React Movement application to **Electron** and created cross-platform builds using **Travis-Ci** builds
- Prototyped a **Python** web automation tool to process movement permit requests given a list of ID's
- Converted Python automation tool to **Java** to read ID excel files from and email, and a **JavaFX** interface to display the results of the permit processing.

ITohro (Contract)

Jun. 2020 – Sep. 2020

Full Stack Developer

A React App platform that facilitates the sales of services directly between consumers and service providers in South Africa.

- Worked with **CSS**, **HTML**, and **JavaScript** to create and edit **React** Frontend components and pages.
- Used **Nodejs** to create backend systems to enable features such as authenticated login, location services, and email notifications.
- Implemented admin dashboard to provide sales information and order tracking.

Construct Education (Fulltime then Part-time)

Jun. 2019 then Jul. 2019 – Dec. 2019

Learning Technologist

An education delivery company working with Schools and Organizations to digitize course content onto LMS'

- Worked with **HTML**, **CSS**, and **JavaScript** to translate client requirements into responsive pages on LMS Platforms.
- Utilized **JavaScript** and Custom **Python** grading scripts to create advanced problem types.
- Flexibly worked across a variety of LMSs and environmental constraints (Blackboard, Canvas, EdX).

Zaio (Part-Time)

Mar. 2019 – Jun. 2019 & Aug. 2019 - Oct. 2019

Backend Software Developer

A Web Development house that freelances projects to young developers.

- Created cart and payment processing backends using Payfast and PeachPay in **Nodejs**.
- Structured database schemas and implemented both **MySQL** and **Mongo** Databases.
- Collaborated with frontend and backend developers on projects using version control **GitHub** and **GitLab**.

LEADERSHIP AND STUDENT LIFE

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| • Humanities Student Council, Academic Chair for the Social Sciences – Mar. 2020 to Oct. 2020 | • Senate, voting member – 2020 |
| • Humanities Student Council, Public Relations Officer – Nov. 2019 to Mar. 2020 | • International Students Forum (ISF), acting Secretary – 2020/21 |
| • Student Parliament, voting member – 2020 | • Undergraduate Academic Sub-Council (UASC) – 2020 |
| | • Developers Society, Secretary – 2019/20 |

RELEVANT PROJECTS

Rona Tracker SA: *Personal Project.* A responsive **Full-Stack** website that tracks Covid-19 Statistics in South Africa, and on a provincial level. Uses web scrapping to gather the statistics. Built using **Node.js**, **EJS** as a templating engine, **Semantic UI**, **SCSS**, and **Postgres DB (AWS)**. Deployed to **Heroku**. (Apr. 2020)

Learn Python Catalogue: *Capstone Project.* **Team Lead** and **Lead Programmer**. A site that allows users to upload Python resources using a link, and the information is scrapped and stored. Uses **React**, **TypeScript**, **Express**, **MongoDB**. Predominantly did backend work but also helped on frontend (Aug 2020 - Oct. 2020)

OTHER RELEVANT INFORMATION

Languages: Java, Python, JavaScript, TypeScript, C#, MySQL, Postgres, Mongo DB, R, Android (Java), SCSS
Frameworks & Libraries: Node.js, Express.js, React, GraphQL, Ionic, Bootstrap, Flask, Selenium, JavaFx, Electron
Tools: Postman, Jenkins/Travis-CI, JetBrains, VS Code, Linux, Windows, GitHub + Gitlab, Heroku, AWS, Docker