

Tumo Masire, FullStack Developer

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PROFESSIONAL SUMMARY

A logical and lateral thinking **Software and Full-Stack Developer** with a love of solving problems through code, and overcoming new challenges! A lifelong learner that is always looking to improve and grow themselves through online courses and real-world experience, while contributing and helping others where he can. I am passionate about technology, data science, and Africa's future potential to contribute in these spaces!

Professional Skills and Interests:

- Software Engineering and Development
- Frontend and Backend Development
- Data Science and Data Analytics
- RESTful APIs and Web Scrapping
- Database Administration
- Deployment and Build Automation (DevOps)

EDUCATION

Bachelor of Science (Honours) Computer Science.

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

- Notable Course Work: HCI, Databases for Data Scientists, AI, Analytics, Compilers I, Functional Programming, Research Methods, Honours Project,
- Class Representative for 8 Courses - 2020

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 – 2018-2020

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):

- **Azure Fundamental Learning Path**, Microsoft, **Microsoft Learn** – Aug 2021
- **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 2021

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

- Assisted students with **logical thinking** and with **debugging** code for assignments.

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- Working in a **Linux** environment to **debug**, compile, and mark student code.

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 in 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.

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'

- Used **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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| • Deputy Speaker of Student Parliament – 2020/21 | • Humanities Student Council, Public Relations Officer – Nov. 2019 to Mar. 2020 |
| • Microsoft Learn Alpha Student Ambassador – 2021 | • Student Parliament, voting member – 2020 |
| • Google Developer Student Club, Technical Mentor – 2020/2021 | • Senate, voting member – 2020 |
| • Humanities Student Council, Academic Chair for the Social Sciences – Mar. 2020 to Oct. 2020 | • International Students Forum (ISF), acting Secretary – 2019/20-21 |
| | • Undergraduate Academic Sub-Council Member (UASC) – 2020 |
| | • Developers Society, Secretary – 2019/20 |

RELEVANT PROJECTS

[Rona Tracker SA](#): *Personal Project*. A **Full-Stack** website that tracks Covid-19 Statistics in South Africa, and on a provincial level. Uses web scrapping to gather statistics. Built using **Node.js (TypeScript)**, **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/Tech Lead**. 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, R, SCSS, MySQL, PostgreSQL, Mongo DB, Android (Java)

Frameworks & Libraries: Node.js, Express.js, React, React-Native, Ionic, Bootstrap, Selenium, JavaFx, Electron

Tools: Postman, Jenkins/Travis-CI, JetBrains, VS Code, Linux, Windows, GitHub + Gitlab, Heroku, AWS, Docker