# Sifundo Mhlungu

## Frontend Developer

React Frontend developer with 3 years of practical experience in building responsive web, mobile, and desktop applications, who enjoys bringing compute-intensive applications to the frontend, as proven by over 4 fully functional cross-platform frontend web apps and developer tools depending on web workers, machine learning and algorithms for computationally intensive work while maintaining seamless performance.

## EXPERIENCE

### Frontend, Machine Learning and Threads.
Frame.

- Frontend web and desktop application to make machine learning, data manipulation, and visualization accessible to anyone.
- Created with HTML, CSS, JavaScript, and a custom virtual DOM for stateful and dynamic HTML elements.
- Harnessed Typescript and web workers to build an optimized and efficient module for data manipulation and visualization.
- Achieved iterative and faster development by utilizing the MVC and reactive design patterns, producing a working MVP in only 11 days.
- Used ML5 for prediction, training, and saving production-ready neural networks and machine learning models.
- Video Demo.

### Full Stack.
Gym Suite.

- Full Stack web application to aid in creating a perfect workout from predefined and customizable workout templates.
- Built with React and Material UI for reusable components.
- Managed complex state and achieved data synchronization with React Query, and coordinated complex changing state with a state-machine using xstate.
- Developed a backend with Nestjs for user authentication and to fetch workout templates from MongoDB.
- Detailed Breakdown.

### Frontend Ionic Mobile.
Pam.

- Ionic mobile app to monitor and predict allergic reactions based on previously observed reaction data using string algorithms.
- Utilized Ionic, Next.js, and Tailwind CSS for custom and reusable components.
- Integrated Pullstate for complex state management, Ionic storage to store data locally, and chart.js for efficient data visualization.
- Assembled the web app to an installable android APK with Capacitor js.
- Video Demo.

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## CONTACT

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## SKILLS

*Languages:*
JavaScript
Typescript
Python
PHP
Ziglang

*Frontend*:
React, React Query
Next.js and Ionic
HTML, CSS, SASS
Tailwind CSS
Material UI

*Backend:*
Node.js, Express and Nestjs.
Laravel.
Serveless and REST api's.
Mongo and Astra DB.

*Quality Assurance:*
Cypress and Jest.
React testing Library.
Mocha and Chai.

## EDUCATION

University of KwaZulu-Natal.
Bachelor of Social Science.
Criminology and Philosophy.

Awards: Golden Key Certificate(Top 15%) in 2019, Dean's Commendation 2020 second semester.

## ADDITIONAL EXPERIENCE

### Frontend library, CLI tool.
CreateLib.

- CLI tool to automate the creation and publishing of Typescript and React Hook modules on npm, with predefined templates.
- Implemented with JavaScript, Node.js, and Inquirer for prompting and accepting choices from the command prompt, then producing chosen templates.
- Github link.

### Frontend library, MVC, Virtual DOM.
Atomicus.

- Frontend library for creating stateful and Object Oriented HTML elements in JavaScript. Utilizing the virtual DOM concept.
- Composed around the Model View Controller and OOP Reactive patterns for iterative and seamless architecture during development.
- Github link.

## ACTIVITIES

BLOGGER

- Published over 30 technical articles on Dev.to with over 11000 views.
- https://dev.to/sfundomhlungu

LEARNING AND DEVELOPMENT

- Currently learning backend, API development, and Quality assurance on freeCodeCamp.
- Actively involved in the #100DaysOfCode and #buildinpublic communities.
- freeCodeCamp profile.

Certifications

- Front End Development Libraries, freeCodeCamp.
- Front-End Web UI Frameworks and Tools: Bootstrap 4, Coursera.
- Crash Course on Python, Coursera.
- Natural Language Processing, Coursera.
- Work Smarter, Not Harder: Time Management for Personal & Professional Productivity, Coursera.