



Busani Ndlovu

Software Developer

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A fullstack developer (MERN+) familiar with industry standards and best practices. Beyond making a living, developing software gives me a chance to make a difference and accordingly I try make all my projects as impactful as possible.

When not immersed in a code sprint, I can be found sitting under a tree somewhere, reading another one of John Keegan's books, or a field manual. I also enjoy endurance sports such as running, cycling, wushu and yang-style Tai chi. I enjoy seeing new things that excite the mind and dare us to dream, so I'm always looking for an excuse to get out of the house and see the world.

Key Skills

- Python
- Typescript
- Node.js
- Express.js
- React
- Postgresql
- MongoDB
- Git, Github
- AWS
- Docker
- Redis
- Selenium
- Microservices
- TDD, CI
- MVC Architecture
- Linux
- Bash
- Virtual Machines
- API Design
- Agile Software Development
- Serverless Architecture

Professional Experience

Full Stack Developer, Founder

Math Drills | May 2022 - Present

Math Drills is an online platform dedicated to helping users achieve math mastery through continuous testing. Unlike similar platforms, Math Drills offers near infinite questions for users to drill on. This is thanks to the fact that all questions are computer generated by well-tested algorithms.

Math Drills also offers a growing network of public and private irc-like channels, where users can interact with one another or the resident AI/chatbot. The project is still in early development and may be found here: <https://drills.vercel.app>

The backend server code is open source and may be here: <https://github.com/FRTNX/math-drills>

Backend Developer

Shakesperium, Dedalus | October 2021 - December 2021

Shakesperium is an app available on Android and iOS. It is designed to make Shakespeare more understandable to everyone.

Here I built the app's entire backend using the MERN stack and deployed it to Heroku. I also integrated Twilio Sendgrid for the app's user mailing list. For cloud storage, I used MongoDB Atlas. With this project came into my own, creating all necessary endpoints, implementing full TDD, and swagger API documentation for the frontend team in a few weeks.

Backend Developer

Jupiter Savings | August 2018 - October 2020

Jupiter Savings was an investment app that interfaced with Alan Gray to offer users more access to investment opportunities. Here I built a variety of endpoints and features.

The backend was built in Node.js, hosted on Github, deployed to AWS, and documented on Swagger. I developed a weird passion for test-driven development and ended up being responsible for writing tests for most of the code base.

I was fortunate enough to learn more than just coding here. I was invited to meetings with third parties we had to integrate with and saw the complete integration of some third-party endpoints, including communications with third parties to resolve data contracts. I also received some small frontend React assignments that would eventually help me become a fullstack developer

Junior Developer

Grassroot Civic Tech | July 2015 - August 2018

Grassroot ZA builds software to assist in community development and community self-management. It has had a significant impact in communities where service delivery is something that must be fought for.

As we were a small team everyone did a bit of everything. I owe my time here to a wealth of experience in technologies such as Docker, RasaNLU, Android Studio, AWS, and countless other technologies. Here I got the hang of API development in microservices-type architecture. I also built an NLU engine to allow users to interact with the services we provided through a Whatsapp-based conversational interface.

Education

GCE O' Level

Luveve High School January 2008 - November 2011

GCE A' Level

Foundation College January 2012 - November 2013

Computer Science & Python Programming

Self-taught 2014 - 2015