

EMPLOYMENT

Senior Software Engineer	Vodacom, Tanzania	Sep 2020 - Present
<ul style="list-style-type: none">• Designed and built VODABIMA application that currently has more than 75,000 active users. The application lets customers purchase motor vehicle insurance policy on their own instead of going physically to an insurance agent.• Designed and implemented the database for the application.• Built the USSD frontend application that customers interact with while using VODABIMA.• Integrated Tanzania Insurance Regulatory Authority(TIRA) APIs with VODABIMA application.• Implemented REST APIs for the USSD and mobile application, also built GraphQL APIs for the web portal.• Wrote unit and integration tests that covered 100% of the codebase.• Performed all the configurations for our test and production servers so that our application can run smoothly. As an example, I set up a continuous integration and continuous deployment(CI/CD) process for our application.• Collaborated with network and security engineers to ensure our servers and applications adhered to the best security practices in the industry.		
Full Stack Engineer	Knightscope, Mountain View CA	Oct 2019 - May 2020
<ul style="list-style-type: none">• Developed, maintained, and managed the distributed Knightscope backend systems.• Designed and developed a feature that let users to quickly upload large amounts of data in csv format.• Worked with columnar databases and advanced MongoDB features that improved performance of analytical workloads.• Improved application performance by utilizing various caches such as Content Delivery Networks.• Improved metrics, monitoring, and alerts for all critical services.• Deployed code to production using Jenkins.• Built and maintained multiple development servers used for testing code.		
Front-End Engineer	Knightscope, Mountain View CA	April 2018 - Oct 2019
<ul style="list-style-type: none">• Built a web application that let users interact with security robots.• Led the development of the user interface for an internal tool.• Created and improved an analytics page that displayed various data in the form of graphs, which helped our large customers to analyze their data quickly.• Used the google maps API to display the real time location and movement of the robots.• Researched and evaluated emerging technology, industry and market trends to assist in project development and/or operational support activities.• Wrote unit tests that covered 100% of the code using Jest and Enzyme.• Reviewed my teammates' code to ensure adherence to coding standards.• Collaborated with robotics engineers to debug and build various features.• Documented all my code to increase code maintainability in the future.		
Full Stack Engineer	Dermveda, Sacramento CA	Nov 2017 - Jan 2018
<ul style="list-style-type: none">• Built a web platform that lets users purchase video courses on skin care issues.• Implemented the server side rendering of the app that improved the initial load speed of the first page, and in addition to that it led to better search engine optimization results.• Designed the app to be responsive and mobile friendly in order to offer better user experience to all		

users with various devices.

- Built an AWS microservice using GraphQL that enables users to login into their accounts. It proved to be an effective solution since it scaled very well to accommodate our large user base.
- Designed an internal website that helps to track various metrics related to our users and give us insightful feedback on how to improve our services and products.

PROJECTS

WhatsApp Chatbot

September 2022

- Built a whatsapp chatbot that lets users create various events.
- Created a feature that allowed users to make donations to other people's events.
- Allowed the owner of the events to view the balance statements of the contributions made towards their events.
- Used the official whatsapp APIs to build the chatbot features.

Rise Travels

July 2022

- Built a static website for a traveling company called Rise Travels.
- Optimized the website for the search engine optimization that led to increased customers.
- Configured custom emails for the company in order to build consistent branding and trust.
- Deployed the website to production using vercel and configured the domain name to point to the production site.

AfyaCall

April 2022

- Maintained, reviewed, and built an internal web application that helps doctors manage their patient appointments.
- Documented the application so as it could be easier for other engineers to maintain the codebase.
- Added unit and integration tests to increase the application's robustness.

EDUCATION

Davis, CA

University of California, Davis

Aug 2012 - April 2017

- Bachelor of Science in Computer Science.
- Undergraduate Coursework: Operating Systems, Algorithms and Data Structures, Programming Languages, Software Engineering, Computer Networks, Databases, Computer Architecture, Natural Language Processing, and Combinatorics.

SKILLS

- Programming languages: JavaScript, Python, and Java.
- Other technologies: HTML, CSS, React, React Native, Redux, NodeJs, Django, RabbitMQ, Kafka, Nginx, Ansible, GraphQL, Redis, MongoDB, SQL, MySQL, AWS, Jest, Enzyme, Git, JIRA, and Linux.