

# Ben Young Mwanzia

Nairobi, Kenya

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## SUMMARY

I am a software engineer with over 7 years of experience specializing in; mobile, web, IoT, game development and embedded systems. Throughout my career I have demonstrated strong problem-solving skills, meticulous attention to detail, and effective teamwork. My ability to estimate project timelines accurately allows me to consistently deliver solutions within the desired time-frame.

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## EXPERIENCE

### **Nile Origin Studios Ltd.** **Founding Engineer**

Nairobi, Kenya  
January 2022 - Present

*The organization initially focused on technical writing and later development of software products using proprietary tools and UE5. We achieve our goals by taking pragmatic steps and delivering iterative improvements. In 2023, we built internal development tools which include the Nile (Vulkan/ C++) 3D graphics engine.*

- Planned and executed the progression of our CI platform from alpha to production-level stability through code refactoring, feature improvements, and collaboration with teams and developers across the organization (*Kubernetes, Docker, Ansible*)
- Worked closely with other application developers on architecture reviews and automation workflows.
- Mentored new hires and created a standard process for interviewing and on-boarding within our team
- Created and led the Developer Experience employee interest group in the organization, which aimed to increase software engineering productivity and cohesion through the company through collaboration, knowledge sharing, and establishment of new conventions

### **Roam Electric Ltd.** **Senior Software Engineer**

Nairobi, Kenya  
May 2021 - October 2023

*Formerly Opibus, the organization underwent re-branding to Roam Electric in 2021. Roam Electric is an e-mobility manufacturing and development company. It provides EV powertrain, electric motorcycles, buses, power generation systems, and charging infrastructures. In the software engineering department I was integral to the success of several of the software products which include the EV infotainment system and asset management mobile and web apps for Roam EV owners.*

- I initiated and executed the setup of data pipelines to capture and integrate EV asset telemetry data into the BigQuery (GCP) data warehouse. This significantly increased data visibility and enhanced data driven decision-making for the organization.
- Collaborated with a team of developers on maintaining and updating automotive embedded systems, which involved interfacing the C/C++ dashboard system firmware with CAN and implementing data sending features over MQTT. This effort led to a 50% productivity increase for electric vehicle (EV) maintenance teams.
- Designed and developed a fleet and charging session management mobile application in react native, optimizing operations for EV owners.
- Updated automated deploy flows to incorporate unit and integration *testing using Google Compute Engine and Google Cloud Build.*

**Circle Digital**  
**Senior Engineer**

Nairobi, Kenya  
August 2017 - December 2020

*Circle Digital is a full service digital marketing agency based in Nairobi, Kenya and London. During my time at the organization I played an integral part in the delivery of software products that included e-commerce, online portals for educational institutions and online directories for a variety of clients which include renown talent agencies.*

- Led the development of Angular and Node.js-based clients - including roadmapping and drafting technical specifications
- Worked in a team of six engineers; collaborated with iOS, and Android teams on cross-platform architectural decisions
- Core contributor to a customized fork of an open-source WebRTC framework, added features that enabled efficient data transfer across platforms (*Node.js, Node Native Modules*)
- Ensured smooth data flow and reliable sync of data between iOS, Android, and web clients by implementing missing data channels, pinpointing packet queue bottlenecks, and debugging across multiple server- and client-side components (*WebRTC, WebSockets, some Objective-C++*)
- Assisted in screening, interviewing, hiring, and on-boarding of new team members

#### EDUCATION

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**United States International University - Africa**  
Bachelor of Science (B.S.), Information & Computer Science

Nairobi, Kenya  
May 2012 - September 2016

#### VOLUNTEER EXPERIENCE & ACTIVITIES

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**Lions Sight-first Eye Hospital Loresho - Data entry**

2015 - 2016

*More projects, activities, and writing available at [bynmz.github.io](https://bynmz.github.io)*