

# Ben Young Nganda

Software Developer

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## SUMMARY

Experienced Senior Full Stack Engineer with over five years in software development, specializing in TypeScript, React, Node.js, and Next.js. Proficient in building scalable, user-centric web applications with a strong focus on performance, reliability, and high-quality code. Skilled in both frontend and backend development, with expertise in cloud infrastructure (AWS), RESTful API design, and database optimization. Adept at collaborating with cross-functional teams, leading complex projects, and creating intuitive interfaces that enhance user experience. Passionate about delivering innovative solutions in agile environments, and committed to continuous learning in cutting-edge technologies.

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## EXPERIENCE

**Roam Electric Ltd.** Nairobi  
**Senior Software Engineer** May 2021 - October 2023

- Led development of a responsive fleet management system with a TypeScript/React frontend, enhancing user engagement by 30%.
- Built and optimized RESTful APIs using Node.js, enabling real-time data integration and communication across services.
- Collaborated with UI/UX teams to develop intuitive and responsive interfaces optimized for both mobile and desktop platforms.

**Nile 3D Studios Ltd.** Nairobi  
**Tech Consultant** January 2022 - Present

- Developed a real-time dashboard for EV fleet data visualization, utilizing TypeScript, React, and Redis for fast data retrieval.
- Built reusable frontend components and managed state effectively with React Context API and hooks, ensuring modularity and maintainability.
- Integrated application with RESTful APIs and managed secure authentication, enhancing data flow between frontend and backend.

**Circle Digital** London  
**Senior Frontend Developer** August 2017 - December 2020

- Played an integral role in developing large-scale e-commerce platforms and online portals for educational institutions, applying Agile development processes.
- Designed and implemented RESTful APIs using Node.js and TypeScript, optimizing for scalability and performance, ensuring secure user authentication using JWT.
- Integrated backend services with MySQL and MongoDB databases, ensuring seamless data flow between mobile/web applications and backend modules.

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## SKILLS

- **Backend Development:** PHP, WordPress, REST, Express
- **Frontend Development:** React.js, TypeScript, JavaScript, HTML5, CSS3
- **Database Management:** Proficient in SQL, PostgreSQL, MongoDB, and Excel for managing and analyzing diagnostic and telemetry data
- **Security & Optimization:** Proactive security updates, troubleshooting, and performance tuning for WordPress and web applications
- **Build & Deployment:** Webpack, ViteJS, Composer, Git, CI/CD, SSH, and basic terminal usage
- **Testing & Quality Assurance:** Browser developer tools, Jest, Cypress

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## EDUCATION

**United States International University - Africa**  
Bachelor of Science (B.S.), Information & Computer Science  
Computer science club official  
Grade: B

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## CERTIFICATIONS

Certified Scrum Master (CSM)  
AWS Certified Solutions Architect

## PROJECTS

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### EV Asset Management System

*Roam Electric Ltd.*

- Developed a full-stack solution for managing electric vehicle fleets, integrating third-party APIs and BigQuery for data storage, and implemented JWT authentication, real-time data processing, and scalable database querying.

### Real-Time Telemetry System

*Nile 3D Studios Ltd.*

- Built a telemetry system to collect, analyze, and visualize data from EV assets using Python and React.js, optimizing system performance and providing real-time insights for fleet management

## VOLUNTEER EXPERIENCE & ACTIVITIES

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### Lions Sight-first Eye Hospital Loresho

- *Assisted in data entry and management for medical records, ensuring accurate and timely input into the hospital's database systems.*

## ENDORSEMENTS

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*"Ben's collaborative spirit and supportive demeanour fostered a positive work environment. He consistently lent a helping hand to colleagues, further enriching the team dynamic. Ben Mwanzia is not only a highly skilled engineer but also a team player who brings enthusiasm and dedication to every project. I wholeheartedly recommend him to any team in search of a motivated and results-oriented individual."*

*- Former colleague (Roam Electric)*

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