# CHARLES DAVID WACHIRA WAMAHIU

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https://github.com/Charles-349/

## EDUCATION

BSC Computer Science– Maseno University

(November 2020- May 2024)

## SKILLS

**Frameworks/Libraries:** React.js, Express.js, Node.js, Next.js, Flask

**Tooling:** Git/GitHub, Cypress, K6, Jest

**Database:** PostgreSQL, MySQL

**Programming Languages:** Typescript, JavaScript, Python

## PROJECTS

1. **Medical Appointment & Patient Management System**                    *June2025 – July 2025*
   - Developed a full-stack web application enabling patients to seamlessly book medical appointments and manage their health profiles.
   - Implemented secure authentication and role-based access for doctors, patients, and admins. Integrated M-Pesa payment processing and medical record tracking, allowing for efficient healthcare management.
   - Designed a responsive and accessible UI with real-time updates for bookings, prescriptions, and doctor-patient interactions.
   - **Stack:** React.js, TypeScript, PostgreSQL, Node.js, Express.js, Drizzle ORM, Redux,Vercel, Render.
   - **Testing:** Achieved high test coverage with unit and integration tests using Jest, and full end-to-end testing using Cypress. Performance tested using K6. **Hosted** Live Project and maintained the source code on GitHub.

2. **Car Rental Management System**                                           **May** *2025 – June 2025*

   - Developed a web-based car rental management system allowing customers to reserve, update, and track car bookings online.
   - Streamlined vehicle rental operations by digitizing booking, availability tracking, and return processes, minimizing manual intervention and reducing operational overhead.
   - **Stack:** React.js, TypeScript, PostgreSQL, Node.js, Express.js, Drizzle ORM, Redux,Vercel, Render.
   - **Testing:** Achieved high test coverage with unit and integration tests using Jest, and full end-to-end testing using Cypress. Performance tested using K6.
   -  The source code on GitHub.

3. **E-commerce System**                                                      **Feb** *2025-April 2025*

   - Developed a full-featured e-commerce web application allowing users to browse products and securely make payments.
   - Streamlined online shopping and inventory management.
   - **Stack:** Next.js, Node.js, Flask. The source code on GitHub.

## EXPERIENCE

1. **QA/QE & Software Development Trainee at Teach2Give**                *May 2025 – July 2025*

- Completed a rigorous 3-month training program emphasizing both backend and frontend development, with a strong foundation in modern quality assurance techniques.
- Gained practical experience in developing and automating tests including unit (Jest), integration, end-to-end (Cypress), and load/performance testing (K6).
- Engaged in full spectrum testing workflows, from test design and execution to bug logging and detailed reporting.
- Worked with a modern tech stack including React.js, Node.js, Express.js, PostgreSQL, Redux, Drizzle ORM, payment integration using M-Pesa, and cloud deployment with Azure.

2. **ERP Consultant at SoftIQ Technologies LTD**                    **August 2024 –** *November 2024*

- ERP implementation and integration.
- Receiving issues and log in the issues to the service desk system.
- Assist in providing first line support to users
- Network connectivity.

## CERTIFICATIONS / BADGES

- [Introduction to Cybersecurity](#)
- [Ethical Hacker](#)
- [QA/QE](#)