

Waweru Wallicestene Wakaba

Software Engineer

Nairobi, Kenya

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Professional Summary

- Software Engineer with experience in full-stack development, cloud-based solutions, and automation.
- Skilled in React, Next.js, Node.js, TypeScript, and Python, with strong knowledge of SQL/NoSQL databases and REST API design.
- Freelance developer on Upwork delivering production-grade web scraping, browser automation, API integrations, and full-stack solutions for international clients.
- Experienced in Agile methodologies, CI/CD workflows, and cloud platforms (AWS, Firebase).
- Strong foundation in system design, problem-solving, and building secure, user-focused applications.

Skills

Technical Skills:

- **Languages:** JavaScript, TypeScript, Python, SQL
- **Frontend:** React, Next.js, TailwindCSS, HTML5, CSS3,
- **Backend:** Node.js, Express.js, Django, NestJS, Prisma, Fast API
- **Web Scraping & Automation:** Playwright, Cheerio, Crawlee, Axios, Apify
- **Databases:** MongoDB, PostgreSQL, MySQL
- **Cloud & Tools:** AWS Cloud, Firebase, Docker, Git & Version Control
- **Concepts:** REST APIs, MVC Architecture, Agile/Scrum, CI/CD

Professional Skills:

- Creativity, Collaboration, Communication, Positive Attitude, Time management, Attention to details, Growth mindset, Interpersonal skills

Experience

Freelance Software Engineer – Upwork

Oct 2025 – Present

- Built advanced web scraping and automation tools for international clients, including Responsibly (Denmark).
- Developed scraping pipelines using Playwright, Cheerio, Crawlee, Axios, and Apify to collect structured data from complex, dynamic websites.
- Delivered browser automation, API-driven scrapers, and data extraction workflows tailored to client business needs.
- Provided full-stack and frontend development services using React, Next.js, Node.js, Express, Prisma and PostgreSQL.
- Ensured reliable deployments, documentation, and support for all delivered solutions.

ICT Intern – Kenya Revenue Authority (KRA)

June 2025 – Sept 2025

- Collaborated with cross-functional teams to integrate pension management modules into the organization's portal, improving system interoperability.

- Enhanced platform security by implementing MFA, CAPTCHA, and secure user registration workflows.
- Supported deployment of key features such as pension calculators and contribution filters.
- Participated in testing and documentation to ensure smooth rollouts and system reliability.

IT Intern – Unity Homes (OCF Internship Program)

June 2024 – Aug 2024

- Built responsive React interfaces and integrated Node.js APIs for enterprise web tools.
- Debugged and optimized backend services, improving reliability and performance.
- Automated workflows with scripts, reducing downtime and improving maintainability.
- Contributed in Agile sprints through code reviews, testing, and deployments.

Projects

Vesper (In Development) | *Next.js, TypeScript, Express, PostgreSQL* | [Link](#)

Sept 2025

- Building a Buffer-like platform for creating and scheduling social posts across multiple channels.
- Implemented backend scheduling, simulated publishing, and engagement analytics using cron jobs and Prisma ORM.
- Integrated secure authentication via BetterAuth with session and Prisma models.

Bookify | *React, Node.js, Express, MongoDB* | [Link](#)

Feb 2025

- Accommodation booking platform with advanced search filters and dashboards.
- Built full-stack workflows for property listing, booking, and user management.
- Optimized backend queries and UI responsiveness, improving engagement by 20%.

MetaBlog | *React, Node.js, MongoDB, TailwindCSS* | [Link](#)

Dec 2024

- Blogging platform with role-based access control and secure content management.
- Developed a clean UI with safe input handling and scalable backend services.

Education

Bachelor of Science in Applied Computing (Software Development)

KCA University, Nairobi, Kenya

Sept 2021 – Nov 2025

Relevant Coursework: Data Structures and Algorithms, Object-Oriented Programming, Networking, Software Development Life Cycle, Advanced, Application programming, Advanced Web development, Database Management, Data analysis

Certifications

- Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate
- Data Structures & Algorithms
- Front-end Development
- Database Management.