

SHANON WAMBUI

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EDUCATION

Jomo Kenyatta University of Agriculture and Technology

Nairobi, KE

Bachelor of Science in Electrical, Electronic Engineering

2018-2023

Second Upper Class Honors (2.1)

Relevant Coursework: Algorithms & Data Structures, OOP, x86 Assembly, Microprocessors, Linear Programming, Nonlinear optimization, Problem solving and Complexity Analysis

PROFESSIONAL EXPERIENCE

ZOLA Reviews

Nairobi, KE

Fullstack developer

09/2024 - to date

- Built scalable RESTful APIs using Django framework.
- Implemented a responsive and intuitive user interface using React.js
- Implemented robust user authentication and authorization mechanisms.
- Utilized PostgreSQL as the primary database for efficient data management
- Seamlessly integrated with AWS S3 bucket for cloud storage and file management
- Streamlined development and deployment processes using CI/CD pipelines.

J.P. Morgan Software Engineering Virtual Experience on Forage

May 2024

- Set up a local dev environment by downloading the necessary files, tools and dependencies.
- Fixed broken files in the repository to make web application output correctly.
- Used JPMorgan Chase's open source library called Perspective to generate a live graph that displays a data feed in a clear and visually appealing way for traders to monitor.

Numeral IOT

Nairobi, KE

Software Engineer Intern

01/2023 – 04/2023

- Developed responsive web applications and ensured cross-browser compatibility
- Worked with design team to translate wireframes and mockups into functional features.
- Designed, developed and tested RESTFUL APIs using Postman
- Demonstrated strong expertise in relational database systems
- Leveraged Git for streamlined collaboration with cross-functional teams
- Gained knowledge of Linux/ Windows environments
- Demonstrated proficiency in software testing using Unit test
- Utilized Agile Methodologies such as Scrum.

Skills: Angular, React-Redux, Bootstrap, TypeScript, java, Springboot, SQL, Git, Postman, Jira, node.js

PROJECTS

Crypto Dashboard: UI/UX, Javascript, React.js, node.js, redux, express

[Link](#)

- Developed a crypto dashboard that fetches real-time data from Coin Gecko API to track coin performance using React.js, redux for state management and express.js for the server-side. Coin performance was done using react-apex charts.

Automation testing: Selenium, pytest

- Conducted comprehensive automated testing on an e-commerce website by leveraging the Selenium automation framework and pytest testing tool. This involved designing and implementing test scripts to validate the functionality and performance of various features on the website, ensuring a seamless and error-free user experience.

Socket programming – Client, Server: Python

- Developed a server/client socket in python. This enabled me to understand TCP/ IP and Network programming.

Ecommerce App: Typescript, Docker, Node.js

- Developed a food ordering website using Angular with Typescript, and Docker for deployment

Smart Walking Stick: Arduino, C, C++, Proteus.

- Created a smart object-detecting walking stick using sensors, wireless communication tech, and a microprocessor to help visually impaired people navigate public spaces.

Twitter Sentiment Analysis: Python, Tweepy, Machine Learning

- Created a sentiment analysis bot that classifies tweets as either positive or negative using sci-kit learn

TECHNICAL SKILLS

- **Languages:** Java, Typescript, JavaScript, Python, HTML, CSS, C, C++
- **Frameworks:** React.js, Next.js, Angular 11, Spring 4.0+, OpenJDK, Express.js, Django
- **Databases:** SQL, postgresql
- **Software Testing:** Selenium, Pytest
- **Environments:** Linux, Windows
- **Developer Tools:** Git, Docker, AWS, GitHub, Gitlab, Postman
- **UI/UX:** Figma, Canva
- **Web3:** Decentralised Finance, Cryptography Research, layer-2, Bitcoin Core

CERTIFICATES

- **Lightning Developer BootCamp** - Africa Free Routing, 2024
- [J.P. Morgan - Software Engineering job simulation](#) – Forage, 2024
- [Beginner's Guide to Agile in Jira Badge](#) - Atlassian, 2024