

Wellington Paidamoyo Mapise

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EDUCATION

Cornell University, College of Engineering

Ithaca, NY

Bachelor of Science in Computer Science

Expected Graduation May 2027

Related Courses: Object-Oriented Programming & Data Structures(Java), Introduction to Computing Using Python, Math Foundations of Computing, Computer System Organization and Programming, Functional Programming, Calculus I & II, Multivariable Calculus, Linear Algebra for Engineers

EXPERIENCE

Emzini WeCode | *Teaching Assistant* | *Remote*

May 2024-Present

- Guide 200 high school students in **Python** programming and core computing principles, including function design, advanced functions, control structures, recursion, and data structures.
- Enhanced performance by 15% through detailed feedback on assignments, labs, and projects for 200 students weekly.

Cornell University Biomedical Device Project | *Software Developer* | *Ithaca, NY*

February 2024-Present

- Lead a team of 40+ in the development of INFLUX, an application addressing a 30% gap in long-term care for substance-use disorder patients, benefiting over 200 patients within the first 3 months of launch.
- Utilize **Figma** to create 10+ cutting-edge designs and **React Native** to build realistic simulations and prototypes.

The DAVE Project | *Software Developer* | *Remote*

August 2023-Present

- Program a WhatsApp chatbot using **Python** and **Twilio API** to assist 300+ students with university applications.
- Manage a **MongoDB** database and integrate external APIs for enhanced functionality, improving application process efficiency by 30%.

PROJECTS

Customer-support-ai Project | *Programmer* | *Headstarter AI Fellowship*

August 2024-Present

- Integrate **OpenAI's GPT** models with **Next.js** and **Material-UI** to develop a real-time Support Assistant for Headstarter, efficiently managing 100+ diverse user queries daily related to technical interview preparation and platform issues.
- Enhance user experience by configuring a seamless development environment with **Node.js** and **npm**, enabling a 25% faster interaction between AI capabilities and a responsive web interface.

Inventory-tracker Project | *Programmer* | *Headstarter AI Fellowship*

August 2024-Present

- Implement a responsive Inventory Management App using **Next.js**, **React**, and **Material-UI**, leveraging **Firestore** for real-time tracking of 1,000+ items, enhancing inventory management efficiency by 40%.
- Optimize the development workflow by configuring **Node.js** and **npm**, reducing integration issues by 30% and accelerating front-end and back-end deployment by 25% for a scalable and intuitive application.

Virtual Reality(VR) Travel Project | *Programmer* | *Ithaca, NY*

July 2024-Present

- Implement **Python** scripts to fetch YouTube video titles and links based on user-entered emotions, reducing search time by 50% and enhancing content relevance for users.
- Utilize **selenium** and **requests** modules to extract **HTML** content, increasing **web scraping** efficiency by 40%

LEADERSHIP

TeXPo STEAM ON Hackathon | *Team Lead* | *Harare, Zimbabwe*

August 2023

- Collaborated with 2 partners to program a smart power management and greenhouse system using Raspberry Pi Pico.
- Presented the project to a panel of 6 judges and secured 1st place out of 6 groups and 36 participants.

Dynamic Thought Leadership | *CoFounder* | *Remote*

September 2021-Present

- Mentored 10+ students on engineering projects, including Stirling engine models and electric generators, while enhancing CAD skills through model designs and assisting with experimental research, leading to a 20% improvement in project outcomes.

SKILLS

- **Technical:** Python, Java, React Native, Kotlin, HTML, CSS, SQL, JavaScript, C, Ruby, Next.js, Firebase, MongoDB, Microcontroller Programming (Raspberry Pi Pico and Arduino), Git, Figma, OCaml, Testing, Linux/Unix, Web scrapping
- **Languages:** Shona, English, Spanish, Hebrew