DAVID WAIHENYA
Third-Year Computer Science Student | University of Embu
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Career Objective

To secure an industrial attachment opportunity where I can apply my computer science skills in fields such as software development, artificial intelligence, system administration, ICT support, computer networking, and database management. I seek to contribute innovative solutions and grow professionally by engaging in impactful and dynamic projects.

Education

Bachelor of Science in Computer Science
University of Embu | August 2022 – April 2026 (Ongoing)

Kenya Certificate of Secondary Education (KCSE)
St. Peter's Moi's Bridge Secondary School | January 2018 – November 2022
Grade: B Minus

Kenya Certificate of Primary Education (KCPE)
Namunyiri Primary School | January 2009 – November 2017
Marks: 286

Technical Skills

- **programming languages:** python, java, c++
- **networking:** tcp/ip, lan setup, network configuration, troubleshooting
- **web development:** flask, html, css, javascript
- **database management:** mysql, mongodb
- **mobile development:** android studio
- **ai & machine learning:** tensorflow, model building
- **operating systems:** linux, windows
- **other technologies:** docker, vmware, cloud computing (aws basics)

Certifications

- **hp life certifications:** introduction to cybersecurity awareness, data science & analytics
- **cisco certified networking associate (ccna)** – in progress

- **introduction to cybersecurity** – cisco networking academy
- **networking basics** – cisco networking academy
- **junior cybersecurity analyst** – in progress

Projects

Maize Disease Detection App (AI-based Mobile Application)

- Collaborated with a team to develop an AI-powered mobile app for detecting maize diseases from images.
- Used machine learning algorithms and TensorFlow for image analysis.
- Award**:** Mozilla Responsible Computing Challenge 2024

Web Application Development (Flask, Python)

- Developed a web application to allow users to create, update, and view records.
- Technologies used: Flask, HTML, CSS, JavaScript, and MySQL.
- Focused on user-friendly interface design and database integration.

Networking & Troubleshooting Project

- Set up and configured a small-scale network for a student-led project at the university.
- Diagnosed and resolved connectivity issues, ensuring stable LAN and internet connections.
- Installed and configured operating systems and software across workstations.

Seminars & Trainings

- **Web Development Masterclass:** Responsive web design and performance optimization
- **Agritech Innovation Forum:** Discussed AI innovations for plant disease detection
- **Machine Learning Bootcamp:** Model building and practical applications using TensorFlow

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Achievements

- **Mozilla Responsible Computing Challenge 2024:** Won for developing an AI-powered maize disease detection app in a team of five
- Successfully led a team of 10 Computer Science students in a group project focused on solving a societal challenge through technology

Interests

Reading computer science literature has been a vital aspect of my professional growth. Books such as *Introduction to Algorithms* by Cormen, Leiserson, Rivest, and Stein have sharpened my problem-solving skills by providing a strong foundation in algorithmic strategies. These insights have enabled me to approach software development challenges analytically and systematically.

Additionally, reading *Clean Code* by Robert C. Martin has refined my approach to writing maintainable and efficient code. The principles outlined in the book have greatly influenced how I structure and design software applications, ensuring they are scalable and easy to understand.

Furthermore, *The Pragmatic Programmer* by Andrew Hunt and David Thomas has enriched my understanding of software development practices. The practical advice on debugging, project management, and software craftsmanship has been invaluable in complementing my academic knowledge and enhancing my contributions to tech projects.

Referees

Dr. David Muchangi Mugo
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Mr. Albert Amutete
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