CURRICULUM VITAE

Halfamaton Ngesu

Web Developer, Data Scientist & IT Specialist

Contact Information

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Personal Profile

A results-driven IT Specialist with a Second-Class Honors (Upper Division) in Mathematics and Computer Science from Jomo Kenyatta University of Agriculture and Technology. Proficient in leveraging cutting-edge technologies to develop secure and scalable IT solutions. Skilled in full-stack web development, system analysis, data science and data-driven decision-making. Adept at resolving technical challenges, collaborating across teams, and ensuring optimal IT infrastructure performance. Passionate about delivering innovative solutions and improving operational efficiency.

Education

- BSc. Mathematics and Computer Science
  Jomo Kenyatta University of Agriculture and Technology, 2019–2023
  Graduated with Second Class Honors (Upper Division)
- KCSE
  Mully Children's Family Secondary School, 2015–2018
  Achieved Grade: B+ (70 points)

Skills

- Technical Skills
  - Programming: Python (Advanced), SQL (Advanced), JavaScript
  -Web Development: HTML, CSS, Django, React.js
  - System Analysis: IT troubleshooting, performance optimization, network security
  - Data Visualization: Tableau, Power BI, Microsoft Excel
  - Cloud Technologies: AWS, Docker (Basic)
- Soft Skills
  - Leadership and mentoring
  - Problem-solving and critical thinking
  - Effective communication and teamwork

Work Experience

- IT Support Specialist & Mentor
  Mully Children's Family Organization, Jan 2022 – May 2023
  - Developed and deployed an internal performance tracking system, improving reporting accuracy by 30%.
  - Provided IT support and troubleshooting for staff, ensuring minimal downtime and streamlined operations.
  - Mentored high school students on the fundamentals of artificial intelligence and IT careers.
- Volunteer Teacher & IT Consultant
  Inyanzaani Secondary School, Jan 2019 – Sep 2019, Jan 2021 – May 2021
  - Implemented a school-wide network solution to enhance internet accessibility and resource sharing.
  - Conducted coding workshops for over 200 students, fostering interest in programming and computer science.
  - Provided technical support for school systems, resolving hardware and software issues efficiently.

Projects

- Online Library Application: Designed and developed an Online library app where users can login and download as well upload their favorite books hence promoting reading.
- School IT Infrastructure Upgrade: Enhanced IT systems at Mully Children's Family Organization, reducing technical issues by about 40%.
- E-Commerce Web Application: Designed and developed a secure online store using Django and React.js, featuring user authentication and payments using MPESA API.
- Sales Analysis Dashboard: Built an interactive Tableau dashboard to visualize sales trends, enabling data-driven decision-making.
- House Price Prediction Model: Created a Python-based machine learning model with 88% accuracy in predicting real estate prices.

Achievements

- Presented a web app system at the university's innovation fair, earning recognition for innovation and practicality.
- Spearheaded IT infrastructure upgrades, enhancing system reliability and satisfaction.
- Successfully mentored over 50 students in AI and computer science, sparking interest in IT careers.

References

Available upon request.