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# MWANGI KANYINYI ALEX

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## PROFILE SUMMARY

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Dynamic and results-driven Computer Science graduate with a strong academic foundation and hands-on experience in software development, data analysis, and project management. Possessing proficiency in multiple programming languages including C++, Python, and JavaScript, along with expertise in web development frameworks such as React.js and Node.js. Skilled in applying algorithms and data structures to solve complex problems, coupled with a keen interest in machine learning and artificial intelligence. Proven ability to work collaboratively in multidisciplinary teams, communicate technical concepts effectively, and adapt quickly to new technologies and challenges. Eager to leverage academic knowledge and practical skills to contribute effectively to innovative projects and drive continuous improvement in a dynamic and challenging environment.

## CORE SKILLS & COMPETENCIES

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- Programming Languages: Proficient in Python, C++, and JavaScript.
- Web Development: Experience with HTML5, CSS3, React.js, Node.js
- Database Management: Familiarity with SQL and NoSQL databases such as MySQL and MongoDB.
- Tools & Technologies: GIT, Agile methodologies.
- Problem-Solving: Strong analytical and problem-solving skills developed through coursework and projects.
- Communication: Effective verbal and written communication skills, demonstrated through team projects and presentations.
- A solid grasp of algorithms and data structures
- Familiar with software development principles
- Basic web development knowledge
- Have a foundational understanding of operating systems, networking, debugging, and testing practices.
- Collaboration, critical thinking, and a commitment to continuous learning

## EDUCATION & PROFESSIONAL QUALIFICATIONS

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**2020-2023 | BSc. Computer Science, Greta University**

**2016-2019 | Kenya Certificate of Secondary Education, St. Mary's Boys Secondary School**

## PROFESSIONAL EXPERIENCE

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**January 2025 – Present | ICT Intern, Karatina Level 4 Hospital**

Systems Administration & Technical Support:

- Assisted in maintaining hospital IT infrastructure, including servers, networks, and databases.
- Troubleshoot hardware and software issues for hospital staff, ensuring minimal downtime.
- Installed, configured, and updated software applications and medical management systems.
- Ensured data integrity through regular backups and disaster recovery procedures.

Software & Database Management:

- Assisted in managing and optimizing the hospital's database for patient records and inventory management.
- Developed and executed SQL queries to generate reports for hospital management.
- Conducted performance monitoring and security checks to safeguard sensitive hospital data.

Network & Cybersecurity:

- Monitored and maintained network performance, troubleshooting connectivity issues.
- Implemented security protocols to protect patient data from cyber threats.
- Conducted security awareness training for staff on best IT practices.

User Training & IT Documentation:

- Provided training and support to hospital employees on IT systems and software usage.
  - Documented IT procedures, technical guides, and troubleshooting steps to enhance operational efficiency.
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### **Jan 2024 – Aug 2024 | ICT Skills Development Program ( HOPS program Short Course)**

Participated in a specialized training program focused on enhancing practical ICT skills for the healthcare and public sectors. The program included modules on:

- **Health Information Systems** – Understanding and managing digital health records and hospital systems.
- **Cybersecurity Basics** – Learning fundamental practices for securing sensitive data in public institutions.
- **ICT Support & Networking** – Hands-on training in diagnosing technical issues, maintaining IT infrastructure, and supporting users.
- **Communication & Professionalism in IT** – Soft skills and ethical training for ICT professionals working in public service.

Successfully completed the course with a focus on practical applications and real-world scenarios.

### **May 2023- August 2023 | Online Bookstore (Java, MySQL) Project, Gretsa University**

- Developed a web-based bookstore application using Java Servlets and JSP for the backend and HTML/CSS for the frontend.
- Implemented features such as user authentication, browsing books by category, and adding books to the shopping cart.
- Designed and normalized a relational database schema to store user information, book details, and orders.

### **January 2023- April 2023 | Personal Portfolio Website (React.js, Node.js) Project, Gretsa University**

- Created a responsive portfolio website using React.js for the frontend and Node.js for the backend.
- Integrated features like project showcases, contact form, and resume download functionality.
- Deployed the website on Heroku and utilized GIT for version control.

### **September 2022 – December 2022 | IT Attachee, Nyeri County Assembly**

#### Software Development:

- Collaborated with the development team to design, develop, and test software applications.
- Participated in the full software development lifecycle, including requirement gathering, design, coding, testing, and deployment.
- Implemented new features and functionalities according to project requirements.
- Assisted in debugging and troubleshooting issues to ensure software quality and reliability.

#### Technical Support:

- Provided technical support to end-users by troubleshooting hardware and software issues.
- Responded to user inquiries and resolved technical problems in a timely manner.
- Installed and configured software applications and hardware devices as needed.
- Documented support procedures and created user guides to facilitate knowledge transfer.

#### Systems Administration:

- Assisted system administrators in managing and maintaining IT infrastructure, including servers, networks, and databases.
- Monitored system performance and identified areas for optimization and improvement.
- Implemented security measures to protect systems from cyber threats and vulnerabilities.
- Conducted routine backups and disaster recovery procedures to ensure data integrity and availability.

#### Quality Assurance (QA) Testing:

- Participated in software testing activities, including writing test cases, executing test plans, and reporting defects.
- Collaborated with the QA team to identify and prioritize test scenarios based on business requirements.
- Conducted regression testing to verify software functionality and performance after code changes.
- Documented test results and provided feedback to the development team for continuous improvement.

#### Database Management:

- Assisted database administrators in designing and maintaining databases to store and manage organizational data.
- Executed SQL queries to retrieve and manipulate data for reporting and analysis purposes.
- Conducted database performance tuning and optimization to improve query efficiency.
- Implemented database security measures to safeguard sensitive information and comply with data privacy regulations.

#### Research and Development:

- Conducted research on emerging technologies and industry trends to identify opportunities for innovation.
- Participated in brainstorming sessions and prototyping activities to explore new ideas and solutions.
- Developed proof-of-concept projects to demonstrate the feasibility of new technologies or approaches.
- Documented research findings and presented recommendations to management for consideration.

## REFEREES

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