CURRICULUM VITAE

PERSONAL DETAILS

Name   Shadrack Onyango Odipo

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PROFILE

I am a dedicated and articulate Computer Science undergraduate with a passion for building innovative software solutions. My academic journey at Kabarak University has been complemented by hands-on experience in developing impactful systems, from school management platforms to factory automation tools. I thrive on solving complex problems, collaborating with teams, and delivering user-focused applications. I am eager to join an organisation where I can tackle professional challenges, leveraging my technical expertise, strong communication skills, and commitment to excellence.

EDUCATION

2021 – Present

Bachelor's Degree in Computer Science

Kabarak University, Kabarak

- Demonstrated academic excellence and leadership through active participation in coursework and projects.

2017 – 2020

Kenya Certificate of Secondary Education

Maseno School, Maseno

- Achieved strong results, laying a solid foundation in analytical thinking and problem solving.

2009 – 2016

Kenya Certificate of Primary Education

Mumias Central Primary School, Mumias

- Consistently excelled in academics, developing early skills in teamwork and discipline.

WORK EXPERIENCE & PROJECTS

MAAT-EA – School Management and Medical Systems

Role: Software Developer

- Designed and developed a comprehensive **school management system** featuring automated timetabling, accounting modules, and student management tools using PHP, Laravel, MySQL, HTML, CSS, and JavaScript.
- Streamlined school operations by implementing an automated timetabling system, reducing scheduling conflicts and saving administrative time.
- Built robust accounting modules to manage fees, expenses, and financial reporting, improving transparency and efficiency for institutions.
- Developed **medical systems** to track patient records, appointments, and prescriptions, using CodeIgniter to ensure secure and scalable backend functionality.
- Collaborated with stakeholders to gather requirements, ensuring the systems met user needs and enhanced operational workflows.

1809 Ltd – Factory Management System

Role: Software Developer

- Contributed to the development of a **factory management system** to optimise production processes, inventory tracking, and workflow automation using PHP, Laravel, MySQL, and JavaScript.
- Implemented features for real-time monitoring of factory operations, enabling data-driven decision-making and improving productivity.
- Designed user-friendly interfaces to simplify complex processes, ensuring seamless adoption by factory staff.
- Worked closely with the team to integrate feedback, resulting in a tailored solution that boosted operational efficiency.

Fairwind Holdings – Corporate Website Development

Role: Software Developer

- Collaborated on building a modern, responsive corporate website using **PostgreSQL**, **Next.js**, and **React**.
- Enhanced user experience by optimising site performance and ensuring mobile responsiveness, leading to increased visitor engagement.
- Integrated dynamic content management features, leveraging PostgreSQL's robust database capabilities and React's component-based architecture.
- Enabled seamless content updates for clients, improving corporate visibility and user interaction.

Bonnie Computer Hub (BCH) – Learning Management System

Role: Software Developer

- Developed a scalable **learning management system** using **PHP**, **MySQL**, **HTML**, **CSS**, and **JavaScript**.
- Implemented features for assignment management, quizzes, and progress tracking, enhancing the learning experience for students and educators.
- Built real-time analytics tools using event broadcasting and frontend frameworks, enabling instructors to monitor student performance effectively.
- Designed intuitive interfaces for creating custom assignments and announcements, improving user engagement and system usability.

Attachment Allocation System

Role: Software Developer

- Created a **web-based platform** to connect students with employers for internship opportunities using **PHP**, **Laravel**, and **MySQL**.
- Developed secure user authentication and registration modules to ensure data privacy and system reliability.
- Implemented search and posting functionalities, allowing students to find opportunities and employers to share openings efficiently.
- Streamlined the attachment-seeking process for Kenyan university students, reducing manual effort and improving access to opportunities.

For more projects, visit my GitHub profile: *https://github.com/OnyangoOdipo*

TECHNICAL SKILLS

- **JavaScript**: Proficient in modern JavaScript, building interactive and responsive user interfaces. Applied extensively in projects like Fairwind Holdings to enhance UI functionality.
- **Next.js**: Experienced in static and server-side rendering, API routes, and dynamic routing. Used to improve performance in corporate websites.
- **React**: Skilled in creating component-based applications with hooks and state management for dynamic UIs. Contributed to real-time functionality in multiple projects.
- **PHP**: Strong expertise in writing clean, efficient code. Used in school management, medical, and factory systems.
- **Laravel**: Proficient in Eloquent ORM, Blade templating, and middleware. Experienced with Filament PHP for streamlined admin panel development.

- **CodeIgniter**: Leveraged for building secure and scalable medical systems at MAAT-EA, ensuring robust backend performance.
- **Database Management**: Skilled in **PostgreSQL** and **MySQL**, including database design, complex queries, and performance optimisation.
- **Front-End Technologies**: Proficient in **HTML**, **CSS**, and **JavaScript** for creating responsive and dynamic interfaces.
- **Version Control**: Experienced with **Git** for branching, merging, and collaboration via GitHub.

SOFT SKILLS

- **Problem-Solving**: Tackle complex challenges with analytical thinking and creative solutions, as demonstrated in debugging and optimising systems.
- **Communication**: Clearly articulate technical concepts to team members and stakeholders, ensuring smooth collaboration.
- **Adaptability**: Quick to learn new technologies and adapt to evolving project requirements.
- **Attention to Detail**: Meticulous in writing clean code, conducting thorough testing, and ensuring high-quality deliverables.
- **Team Collaboration**: Thrive in team settings, contributing to a productive and positive work environment while also working independently when needed.

REFEREES

1. **Martin Tarus**
   CEO, MAAT SYSTEMS EA
   Tel: +254 734 808007

2. **Kennedy Mukhwana**
   CEO, EIGHTEEN-O-NINE LTD
   Tel: +254 732 386 906

3. **Bonface Onduso**
   Director, Bonnie Computer Hub
   Tel: +254 729 820689