GRACE HIUKO

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EDUCATION

Jomo Kenyatta University Of Agriculture and Technology — April 2024
B.Sc. Mathematics and Computer Science — *Second Class Honors*

St. Annes' Lioki Girls Secondary School — November 2019
— *Grade: B+*

COURSEWORK

Computer Science: Object-Oriented Programming, Data Structures & Algorithms, Embedded Systems, Cloud Computing, Artificial Intelligence, Computer Graphics, Cybersecurity, Simulation and Modeling

Mathematics: Discrete Math, Linear Algebra, Calculus, Probability & Statistics, Time Analysis, Theory of Estimation, Numerical Analysis, Differential Geometry, Applied Analytical Mathematics, Dynamical Systems, Complex Analysis

TECHNICAL SKILLS

Programming Languages: Python, MySQL,PHP, JavaScript, HTML/CSS, LaTeX

Tools: VS Code, XAMPP, LAMP

Frameworks: Django, VueJs, Tailwind CSS, Laravel, Blade, WordPress

Libraries: Matplotlib, Pillow, OpenCV

Version Control & CI/CD: Git, GitHub, CI/CD principles

Content Management Systems (CMS): WordPress, Basic knowledge of Drupal and Joomla

Environments: XAMPP, LAMP

Design & Writing:: Use of Canva, Skilled blog writing

Other: SEO, Browser testing, Debugging, E-commerce solutions, Responsive design, Cross-browser compatibility, Agile and SCRUM development methodologies

PROFESSIONAL EXPERIENCE

Indepth Research Institute | *Developer* — May. 2024 – Present

- Collaborate with senior developers on building and maintaining web applications using Laravel, Blade, PHP, and Tailwind CSS.
- Redesigned web pages to improve functionality and user experience, optimizing performance by implementing Tailwind CSS.
- Customize WordPress plugins with PHP to enhance website functionality, utilizing Advanced Custom Fields for dynamic content management.
- Conduct browser testing and debugging to ensure cross-platform compatibility and optimal user experience.
- Participate in Agile development practices, including code reviews and sprint planning.

Power Learn Project Africa | *Software Engineering Scholar*   Feb. 2024 – Present

- Engaged in an intensive software engineering program, building foundational skills in full-stack web development and collaborating on team projects.

Highschool Tutoring | *Tutor*   2017 – 2019

- Tutored high school students (Form 1–4) in mathematics, chemistry, and physics, adapting lessons to individual needs and improving students' grades.

Rotary Club of Karura (District 9212) | *Club President& Volunteer*   2018 – 2019

- Led volunteer initiatives, managed club activities, and facilitated community projects as the Club President in 2019

PROJECTS

Indepth Research Institute | *Laravel, Blade, Tailwind CSS, HTML, MySQL, PHP,JavaScript*   May 2024 – Present

- Built and maintained Laravel-based applications, collaborating with senior developers and improving project standards.
- Migrated legacy designs from Bootstrap to Tailwind, enhancing page load speeds and mobile responsiveness.

Momentas E-Learning Platform | *WordPress, Moodle*   Oct. 2024 – Present

- Collaborated with senior developers to create an e-learning platform using WordPress and Moodle, enabling users to enroll in self-paced courses.
- Integrated Moodle with WordPress to enhance user experience and manage course content seamlessly.
- Ensured the platform's functionality across devices, conducting browser testing and optimizing for responsiveness.

Trainers Uber App (SAAS) | *Django, HTML, CSS, Vue.js, Machine Learning*   Oct. 2024 – Present

- Developing a SaaS application for trainers and training organizations, providing a platform for job postings and trainer matching.
- Leveraged machine learning to match trainers with job requirements and student qualifications, enhancing precision in recommendations.
- Built a user-friendly interface using Django and Vue.js to improve engagement and ease of navigation.

Apollina Healthcare | *Wordpress, HTML/CSS, MySQL, PHP,JavaScript*   May 2024 – Present

- Developed WordPress websites, customizing plugins and using PHP for added functionality.
- Applied Advanced Custom Fields to streamline content management for client ease of use and improved SEO principles for better online visibility.

Malaria Transmission Dynamics in Kenya | *ODEs, Python, LaTeX, Matlab*   Sep. 2023– Apr. 2024

- Developed a compartmental model to analyze malaria transmission dynamics in Kenya.
- Utilized Python and Matlab for data simulation and graphical presentation, contributing to disease prevention insights.

MobiMechanic | *HTML/CSS, MySQL, JavaScript, Google Maps API*   Jan 2022 – April 2022

- Designed a web app for mobile mechanic requests, integrating Google Maps API to connect users with nearby mechanics.
- Built a MySQL database for storing mechanic profiles, contact details, and location information, improving service accessibility for car users.

Women In Gym | *HTML/CSS, MySQL, JavaScript*   Jan. 2024–Present

- Created an online fitness platform for women, implementing responsive design techniques for a mobile-friendly user experience..