IAN NGANGA KAMAU

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Professional Summary

I'm a curious and driven Software Engineer passionate about building robust, scalable, and user-friendly applications. With a strong foundation in software development, system design, and problem-solving, I have developed hands-on projects that deliver real-world solutions. I thrive in collaborative environments, enjoy tackling complex technical challenges, and love simplifying concepts for seamless user experiences. Always eager to learn and grow, I'm excited to contribute my skills to creating impactful, innovative software solutions.

Professional Skills

Programming & Data Structures

- General understanding of Java, C, PYTHON programming languages and learning darts

- Strong foundation in data structures, algorithms, and problem-solving techniques.

Database Design and Implementation

- Skilled in databases design, queries, functions and stored procedures.

- Experience in MySQL and PostgreSQL.

Web Design

- Proficient in HTML5, CSS3 for responsive and user-friendly layouts.

Web Development

- Well versed with PHP for backend development.

- Skilled in JavaScript, jQuery, and learning Angular

Linux Skills

- Well versed with knowledge in Debian based Linux systems, Kali Linux and Ubuntu Linux systems

- Proficient knowledge in working with the Linux command line interface (terminal).

ADDITIONAL SKILLS

- Effective communication and teamwork abilities.

- Strong research and problem-solving skills.

Projects

Personal Portfolio

Designed and developed a responsive personal portfolio website using HTML, CSS, and JavaScript

to showcase my profile, skills, and projects professionally, featuring a smooth user interface and animations, which enhanced my visibility to recruiters and provided a centralized platform to present my work and GitHub projects.

Portfolio link: https://ianngash.netlify.app/

ChuoChance (County Bursary Management System)

Identified the problem of inefficiency, lack of transparency, and poor data management in the manual county bursary application and allocation process. To address this, I designed and implemented a centralized web-based bursary management system using Django, PostgreSQL, and Bootstrap, enabling online applications, automated eligibility checks, document verification, and a transparent fund allocation engine supported by real-time reporting and analytics. As a result, the system reduced paperwork, improved transparency, and enhanced accountability, achieving greater efficiency and fewer errors in applicant verification and fund disbursement, benefiting students, county governments, and educational institutions.

GitHub repository link

Work Experience

- **Member of SPU Google Developer Groups (GDG)-**Collaborated with peers on workshops and hackathons focusing on web development and open-source projects.

- For Github repositories see https://github.com/NGASH7

Education

B.Sc. Computer Science	2022-present
St Paul University, Limuru, Kenya	
Kenya Certificate of Secondary Education	2018-2022
Molo Academy Boys Secondary School, Nakuru, Kenya	

References

Available upon request