Patrick Cheruiyot

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Software Developer

I am a motivated and responsible Computer Scientist with a passion for using technology to solve real-world problems. My experience in developing software systems and web applications using Python and other technologies has honed my analytical and problem solving skills. I thrive in a team environment and contribute effectively while also being capable of working independently under minimal supervision. With excellent communication skills and a positive, adaptable attitude, I embrace new ideas and prioritize tasks efficiently to deliver successful outcomes.

EXPERIENCE

The Micropoint Systems LTD • Nairobi, Kenya • 06/2022 — 09/2022

Software Developer Intern

I developed a COVID-19 tracking application using C#. The system allows users to access updated statistics on cases, recoveries, and fatalities. By utilizing APIs for real-time data and implementing a clean, user-friendly interface, I provided a comprehensive tool for monitoring pandemic trends. This project strengthened my C# and API integration skills, reinforcing my ability to create responsive and data-driven applications.

EDUCATION

Bachelor in Computer Science

Karatina University • Nyeri, Kenya • 01/2019 — 12/2023

Course in Software Development

Moringa School • Nairobi • 08/2024 — Present

CERTIFICATIONS

Docker Certification

KodeKloud

Python Certification

KodeKloud

PROJECTS

Fashion Store Website • Link

- This fashion web application enables users to browse, search, and filter clothes by season, gender, or name, providing a seamless and engaging user experience. Users can add items to their favorites, view detailed product information, and interact through a comments section. Designed to be responsive and user-friendly, the app features a swiper carousel for gallery and comments.
- **Product Display:** Paginated product display allows users to view a set number of items simultaneously.
  Search and Filter: Users can search by keyword (name, season, or gender) and filter by season or gender.

- **Save to Favorites:** Users can add items to their cart (favorites), adjust quantities, or remove items.
  Comment Section: Allows users to submit comments on products in the detailed view.
- **Swiper Carousel:** Integrated swiper for displaying comments and featured products.
  Local Storage: Favorites and likes are saved for a personalized experience.
  Pop-up Contact Form: Enables users to submit their contact information.
- **Front-end Technologies:** HTML, CSS, JavaScript.
  JSON: Product data is stored in `product.json`, which is dynamically fetched and displayed.
  Core Logic: JavaScript powers the product display, search, filter, favorites, and comment features.
- Delivered an interactive, responsive fashion application that enhanced user experience with intuitive search, filtering, and favorite-saving features, driving seamless product exploration and engagement.

Web Scraping for Educational Purposes

- As part of my final year project, I conducted web scraping with the goal of gathering valuable educational data from various websites.
- The objective was to create a web scraping tool that could extract relevant information for educational research and data analysis.
- **Implementation**: Utilizing the powerful Beautiful Soup framework in Python, I designed and implemented a web scraping tool capable of navigating through different websites' HTML structures.
- The tool effectively scraped and extracted specific data points related to educational content and resources.
- **Technologies used**: Python, Beautiful Soup, MySQL.
- **Achievements:** The successful completion of the web scraping project yielded a valuable tool for educational research and data analysis.

Learning Management System (LMS) for a Primary School

- The aim of this ongoing project is to develop a comprehensive Learning Management System (LMS) tailored specifically for a primary school environment.
- The LMS will serve as a digital platform to enhance the learning experience for both students and teachers.
- **Features:** The LMS encompasses various modules, including student profiles, teacher accounts, course management, and categorized learning materials.
- The system will allow teachers to create and manage courses, assignments, and assessments, while students can access course content, submit assignments, and track their progress.
- **Technologies used:** Utilized Python and the Visual Studio environment for development, and managed the project using GitHub.
- **Achievements:** By successfully implementing this LMS, I envision transforming traditional learning methods and fostering a more engaging and efficient educational process.