Denis Douglas Maina Mbuthia
Full Stack Developer/ AI Tutor

Details

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Education

Egerton University
Aug-2008 to May-2012
BSc Computer Science
Second Class Upper Division

Languages
English: Highly Proficient
Swahili: Highly Proficient

Profile

I am a passionate Full Stack Developer with a strong focus on building responsive web applications that feature well structured designs and intuitive user interactions. With a detail oriented and efficient approach, I have extensive experience across application layers, presentation layers, and databases. Beyond web development, I have a strong background in AI Data Training as a Coding Domain Expert, where I have contributed to improving the performance and usability of large language models (LLMs) within the coding domain. Additionally, I have extensive expertise in AI Data Annotation, including image and video box annotations, LiDAR annotations, and semantic segmentation.

Employment History

April 2024 - Present
I have served as Freelance AI Tutor and Coding Domain Expert with Appen CrowdGen, Translated, and Mindrift AI. My responsibilities include Assessing AI responses to coding related prompts, ensuring their accuracy, quality, and alignment with real world coding practices and user needs. Improving AI generated code solutions and technical explanations by enhancing their correctness, readability, and usability for developers of varying skill levels. Contributing to the development of bilingual AI capabilities by evaluating and refining model responses in **English** and **Swahili**, ensuring nuanced contextual understanding in both languages. Collaborating with the team to uphold and enhance quality standards by following established guidelines and recommending improvements to evaluation processes.

May 2016 – March 2024
I served as a QIR Auditor L10 with Remotasks, where I was entrusted with the final review of taskers' work, ensuring adherence to guidelines and maintaining the highest standards of quality. My role demanded expertise in various annotation tasks including image and video box annotations, LiDAR annotations, and semantic segmentation. This experience equipped me with a keen attention to detail and a deep understanding of diverse annotation methodologies.

Skills

- Communication Skills, Quality Control, Time Management, Team Work.
- Full Stack Responsive Web Applications Development.

- Application Layers, Presentation Layers and Databases
- AI Data Annotation, Image and Video Annotation, Semantic Segmentation
- Machine Learning and Data Science.

Hobbies

Traveling.
Virtual Realities.
Video Games.
Historical Docuseries.
Technological Documentaries
Classic Dancehall Music.

Full Stack Developer Expertise

Front End

I possess extensive experience and proficiency in utilizing various front-end frameworks and languages, including HTML, CSS, JavaScript, React.js, Next.js, Redux, Bootstrap, Tailwind CSS, and Material UI. These tools enable me to develop dynamic and visually appealing user interfaces while ensuring optimal functionality and user experience.

Back End

I possess comprehensive experience and expertise in utilizing a variety of back-end frameworks and languages tailored for backend development, including Node.js, Express.js, Django, Mongoose, Sequelize, Prisma, Mongo DB, MySQL, PostgreSQL and JSON. These technologies empower me to architect and develop robust RESTful APIs, ensuring efficient communication between the server and client applications while adhering to industry best practices.

Machine Learning and Data Science

I am at a beginner level in Machine Learning and Data Science, with a strong foundation in data analytics, dataset analysis, and feature engineering. My expertise includes training and testing models using various statistical and machine learning techniques such as Linear Regression, Random Forest Regression, Classification models, and Deep Learning. I primarily work with Python and leverage powerful libraries like Pandas and NumPy for data manipulation, Scikit-learn for model training and evaluation, Matplotlib for data visualization, and TensorFlow for deep learning applications. I am continuously expanding my knowledge to refine my skills and apply machine learning to real-world problems.