MF MELANIE FAYNE

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📍 Nairobi, Kenya

PROFESSIONAL SUMMARY

I design and develop digital products, transforming ideas into functional and engaging user experiences. My expertise spans both front-end and back-end development, enabling me to build comprehensive mobile and web applications. While I integrate artificial intelligence and data-driven features where appropriate, my primary focus is on delivering robust, scalable, and high-performance software solutions.

Portfolio: https://melaniefayne.vercel.app/projects
Github: https://github.com/mel-fayne

SKILLS

- Frontend: Typescript | React | Angular | Flutter | NextJS | CSS | JavaScript | Figma
- Backend: Python | Django | REST API | MySql |
- Data Science: SciKit Learn | Jupyter

WORK EXPERIENCE

Lead Mobile Developer　　　　Vaue Chain Factory, Nairobi　　　　May 2024 - Nov 2024

- Led the mobile development team at Retail Pay Africa, a leading tech solutions provider for retail outlets in Kenya. The role involved developing and managing a mobile application to assist salespeople with route sales and enabling Point of Sale cashiers to manage daily sales operations effectively. Additionally, I focused on maintaining high performance during peak sales traffic and strengthening security measures across Retail Pay's mobile platforms.

Software Engineer　　　　Vanoma Limited, Nairobi, Kenya　　　　July 2023 - Feb 2024

- Worked as a data engineer on a beauty product information system built in Python. The systems aimed to normalize different information from different beauty sites and used Openai's API, particularly the Large Language Model (LLM) interface via ChatCompletion, to enhance how this data is presented to day-to-day users.
- Designed and implemented the web applications for Vanoma's Survey and Reports using React with Typescript. Those applications enabled businesses to access market intelligence through a simple and intuitive interface, making graphing insights from the data easier. The project supported world-renowned brands such as L'Oreal in the beauty industry to gather and process necessary intel that led to tangible improvements in their marketing.

Software Engineer　　　　Sisitech Limited, Nairobi , Kenya　　　　Oct 2020 - Feb 2023

- Build a mobile application with Flutter and Python for the backend, that helps users track their spending habits using SMS data from MPESA payment receipts. The project also involved building an expense clustering and spending recommendation model to help users get better insights.
- Worked with the Flutter, Angular, and Ionic frameworks to develop various client websites and mobile applications in the Car Insurance, Music, and Education industries. Contributed to building websites that resulted in a significant increase in business outputs for clients, with an average growth rate of 30.5% in website traffic and a notable increase in conversions

EDUCATION

Bachelor of Science	University of Nairobi	Sept 2019 - June 2023
Major in Computer Science		First Class Honours

Masters in Computational Intelligence	University of Nairobi	Sept 2023 - June 2025
Major in Computer Science		Ongoing

RELEVANT PROJECTS

- Wavvy Wallet: Led the frontend engineering team at Sistech Limited to develop a popular Flutter app that uses M-Pesa messages to help users monitor and manage their spending, achieving a 72% acceptance rate among individuals and small businesses.
  - Technologies: Flutter
  - Link: https://wavvywallet.com/

- Omnishades catalogue: Designed and built the catalogue website for Omnishades Distributors.
  - Technologies: Typescript, React
  - Link:

- Vanoma Survey App: Developed the front end of a web application for beauty brands, enabling seamless data collection and photo evidence capture for effective market research.
  - Technologies: Typescript, React
  - Link: https://drive.google.com/file/d/1Knn1hVG7yz0jnPA5IdbO5D-wr26ARV6e/view?usp=sharing

- Retail Pay Mobile: Led the mobile application development of systems that assist salespeople with route sales, allowing them to efficiently plan customer visits, track sales performance, and manage interactions on the go.
  - Technologies: Flutter
  - Link: http://www.retailpay.africa/

- Elira: For my final year project, I developed a career guidance app for tech students using predictive modelling with over 70% accuracy, enhancing post-graduation decision-making.
  - Technologies: Flutter, Python, Django, SciKit Learn
  - Link: https://melaniefayne.vercel.app/elira_project

- Paiva Garbage Collection System: Developed a full-stack website for a garbage collection company in Kenya using Django REST API for the back end and Angular for the front end, reducing manual client payment tracking by 80%.
  - Technologies: Typescript, Angular, Django, Python, MySql
  - Link: https://melaniefayne.vercel.app/paiva_project