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SUMMARY

I am Kevin, a software engineer and solutions architect skilled in designing, architecting, and developing highly performant user-focused software applications using modern technologies. My primary skills include AWS, Python (FastAPI), TypeScript, and NextJS. One interesting thing about me is that I focus on why solutions are built rather than how, to ensure all products have the intended impact.

SKILLS

Programming Languages: TypeScript, Python, SQL, Go, Java, JavaScript

Frontend Frameworks: NextJS, React, GatsbyJS

Backend Frameworks: FastAPI, Django, Flask, Express, SpringBoot

Cloud/DevOps: AWS, Docker, Kubernetes, GitHub Actions

Data: PostgreSQL, MySQL, MongoDB, Redis, Microsoft Excel, Tableau

AI/ML: Langchain, LlamaIndex, Retrieval-Augmented Generation (RAG), vector databases

Others: Git, Linux

EXPERIENCE

EarthHero - Chicago, USA

Software Engineer

Feb 2024 - May 2025

- Rebuilt the organisation's web app with TypeScript, NextJS, Python, and FastAPI, leading to a 40% reduction in loading times and a greater user experience.
- Reconfigured the application's deployment on AWS Elastic Compute Cloud (EC2) with an Elastic Load Balancer (ELB) and auto-scaling groups to handle fluctuating global traffic, making it possible to accommodate 80,000 daily active users.
- Configured the application's PostgreSQL database with Amazon RDS, transferred it to a private subnet, and set up AWS Web Application Firewall (WAF), ensuring the application and user data were well protected on the internet. This improved the app's security by 45%.
- Spearheaded the decoupling of the web app's previously close-knit structure into a microservices architecture to improve its scalability, reliability, and maintainability. This approach enhanced the application by an average of 57% across these metrics..
- Integrated and fine-tuned an internal LLM-based sustainability assistant using Hugging Face Transformers, PyTorch, LangChain, and LoRA. This model generated personalized carbon-reduction insights for users based on behavioral data. Leveraged agentic training with structured JSON feedback loops to refine reasoning and context awareness, improving response accuracy by 24% and boosting user engagement by 30%.

Sarabi Startup Studio - Nairobi, Kenya

Fullstack Engineer

Jan 2023 - Feb 2024

- Rebuilt Mula\$afi, a Kenyan-based sports platform, using React, TailwindCSS, Python, and FastAPI to improve its UI and switch its B2C and C2B payment model from Ethereum to [M-Pesa](#), a locally palatable option. This move led to an increase in daily active users from 400 to 1500.
- Built BimaBee, an insurance aggregator, using Django, React, MongoDB, and AWS; an application that reduced insurance claims processing time by 67%.
- Developed and fine-tuned a domain-specific LLM to automate insurance queries and claims triage within BimaBee. Used Hugging Face PEFT (LoRA), LangChain, and JSON-based agentic workflows to train the model in multi-step reasoning, API orchestration, and contextual decision-making. This reduced average query resolution time by 42% and improved claim accuracy by 19%.
- Contributed to backend microservice design and optimized system architecture for scalability and rapid deployment in AWS and Dockerized CI/CD pipelines.
- Worked in agile sprints and collaborated with cross-functional teams to deliver features aligned with user feedback.

Moringa School - Nairobi, Kenya

Junior Software Engineer

Jul 2022 - Jan 2023

- Led a team to develop a real estate valuation web app using React, Python, FastAPI, Docker, and AWS, resulting in a 1000+ user base and securing a contract for a centralized property listing database with the Kenyan Ministry of Lands, Public Works, Housing, and Urban Development.
- Managed a full-stack e-commerce project from conception to deployment, ensuring delivery 3 weeks ahead of schedule.
- Spearheaded microservices transition aligned with modern software development practices (Azure DevOps and continuous deployment).

Kenya Vehicle Manufacturers (KVM) - Thika, Kenya

Engineering Intern

Jan 2019 - Dec 2019

- Revamped the company web app using Python, Django, React, and JavaScript, increasing online traffic by 70% and customer inquiries by 40%.
- Leveraged React's features to improve the application's frontend layout, reducing page load times by 50% and leading to a higher user experience score.

Tea Machinery & Engineering Company (TEMEC) - Nairobi, Kenya

Engineering Intern

Jan 2018 - Dec 2018

- Overhauled the TEMEC web app, rebuilding it using JavaScript, React, Python, and Django, leading to improved load times, accessibility, and functionality. Stakeholder engagement improved by 60% after this update.
- Implemented OWASP-guided security improvements in the application's backend and API, reducing system vulnerabilities by 80%.

PERSONAL PROJECTS

Carepulse - <https://carepulse-sage-one.vercel.app/>

A full-stack hospital management platform that enables real-time patient registration, doctor selection, and appointment booking built with Nextjs, TypeScript, AWS EC2, and Appwrite. It also has a secure admin dashboard to verify insurance data and confirm appointments, streamlining patient onboarding by up to 40%.

MeetingsIO - <https://meetings-io.vercel.app/>

An end-to-end online videoconferencing tool that provides users with free, unlimited call options. It leverages NextJS 14 for fullstack development, Clerk for user authentication, MongoDB for storage, and Stream for sub-300ms audio/video latency during calls.

EDUCATION

Moringa School (Jul 2022 - Jan 2023) | Certificate in Software Engineering

Jomo Kenyatta University of Agriculture and Technology (Sept 2015 - Jul 2022) | Bachelor of Science in Mechanical Engineering

Mangu High School (Jan 2011 - Nov 2014) | High School Diploma (Kenya Certificate of Secondary Education)

CERTIFICATIONS

AWS Certified Cloud Practitioner - Amazon Web Services (AWS)

AWS Solutions Architect Associate - Amazon Web Services (AWS)

Microsoft Azure Fundamentals - Microsoft

AWARDS, HONORS & PERSONAL ACCOMPLISHMENTS

Winner: Team Up for Climate Challenge | Egis Foundation, France, May 2023

First Runner's Up: Future@Work Student Challenge | STMicroelectronics, France, Feb 2021