

Zoe Mwangi

Software Developer

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Unrestricted right to work in the UK

Professional summary

Full-stack Software Developer with strong expertise in modern frontend technologies including React and Svelte, building responsive and high-performance user interfaces. Experienced in developing and integrating RESTful services using Node.js and [Next.js](#), and working with PostgreSQL for efficient data management. Proven ability to modernise legacy systems by translating older codebases into scalable, maintainable frontend architectures. Leverages AI-assisted development tools to enhance code quality, consistency, and development speed. Collaborates effectively in agile environments using tools such as Redmine, with a strong focus on performance and clean code.

Skills

Frontend

HTML5, CSS3, JavaScript, TypeScript React, Svelte, Tailwind CSS, State management, API (REST)

Backend

Node.js, Next.js, Scala, Fastify, Python, API design (RESTful services, authentication, error handling), Server frameworks ([Express.js](#), FastAPI), Integration with third-party services, Basic microservices architecture understanding.

Database

SQL, PostgreSQL(DBeaver, PGAdmin), Database integration with backend services, Data fetching & transformation

Supporting Skills

Version control: Git & GitHub, CI/CD pipelines (Amazon Web Services CodeBuild, CodePipeline), Agile tools (Redmine), Build tools (e.g. Vite, Webpack), Generative AI & AI-assisted development (OpenSpec, Claude Code, Codex, GitHub Copilot), Retrieval Augmented Generation (RAG), Hugging Face, Ollama, Debugging & performance tuning, Vercel, AWS tools (S3, EC2 instances), VPS Hosting, Grafana, Playwright, Sentry, PostHog.

Projects

[UKVisaChecker](#) - Techstack: (React, [Next.js](#), Python, FastAPI, ClaudeCode, Vercel, Git, RAG, Ollama, ChromaDB) - An LLM trained on official UK visa documents using RAG to check for visa eligibility based on various factors.

[Todaysdevs.com](#) - Techstack: (React, [Next.js](#), JavaScript, Tailwind CSS, ClaudeCode, OpenSpec, Neon, Vercel, Stripe, Git, APIs) - A “learning to code” platform that encourages learning by project building.

[Talentapp.co.uk](#) - Techstack: (React, Node.js, Tailwind CSS, Cursor, Firebase, Vercel, Stripe, Git, APIs, PostHog, Sentry) - A job description to CV compatibility calculator for multiple roles with various metrics eg ATS score, missing skills etc.

[Humble-ui.com](#) - Techstack: (React, Next.js, Cursor, ClaudeCode, OpenSpec, Supabase, Vercel, Stripe, Git, APIs) - A prompt generation site for developers leading to a professional front-end app/website.

Employment history

Full Stack Developer, April 2025 - Present

WhiteBullet Solutions, London

- Developed and delivered modern, high-performance user interfaces using Svelte and React, enhancing usability and maintainability while integrating seamlessly with existing PostgreSQL databases and RESTful Node.js APIs.
- Migrated legacy Scala-based functionality into scalable React components, improving code readability, reducing technical debt, and streamlining debugging and future feature development.
- Collaborated within an agile workflow using Redmine to manage tickets, prioritize tasks, and ensure timely delivery of features and bug fixes across the full stack.
- Leveraged AI-assisted development tools (e.g., OpenSpec) to improve code quality, accelerate development, and enforce consistent coding standards across the codebase.
- Designed and maintained CI/CD pipelines using AWS services (CodeBuild and CodePipeline), enabling automated testing, build, and deployment workflows.

Full Stack Developer Intern, Oct 2023 - Dec 2024

IT Career Switch, London

- Developing full-stack applications using modern frameworks while mastering agile methodologies, contributing to cross functional team projects and problem-solving.
- Learning and implementing best practices in software development through hands-on coding, testing, and debugging of web applications
- Participating in code reviews and pair programming sessions to enhance development skills while building responsive web interfaces and integrating APIs.

Clinical Support Specialist, May 2022 - Feb 2025

Hvivo, London

- Streamline clinical trial monitoring systems and implement quality control measures to enhance data integrity, accuracy, consistency and protocol adherence
- Develop and maintain comprehensive documentation systems for clinical trials, ensuring seamless tracking and regulatory compliance
- Partner with cross-functional teams to optimise trial processes and establish standardised procedures for data collection and validation

Data Science Intern, Dec 2022 - Oct 2023

AiCore, London

- Developed and implemented computer vision models using TensorFlow and OpenCV, focusing on real-time gesture detection and advanced machine learning applications.
- Conducted comprehensive data analysis on Airbnb datasets, implementing classification and regression models to predict pricing patterns and category distributions.
- Engineered a robust ETL pipeline for retail data integration, designing and optimising a star schema database structure for enhanced analytical capabilities.
- Executed SQL-based data analysis projects, transforming complex retail datasets into actionable business insights through strategic database modelling.

Education

AI and Machine Learning, Certification, 2022 - 2023

AiCore, London

BSc Biomedical Sciences, 2017 - 2020

Maastricht University, The Netherlands

Diploma in Cancer Immune Personalised Therapies, 2019 - 2020

Vrije University, The Netherlands

Five A-Levels, 12 O-levels, 2014 - 2016

SCLP Samaj

Courses

Coding Traineeship – Full Stack Developer, Oct 2023 - Dec 2024

IT Career Switch Ltd

AI and Machine Learning, 2022 - 2023

AI Core

Other activities

British Red Cross (London, Southwark) Emergency Response Volunteer (Oct 2023 - Present)

Black Girls Climb (BGC) - Bouldering group Vice President (July 2024 - Present)

Links

Website: zoemwangi.co.uk, GitHub: github.com/projectswithzoe, LinkedIn: www.linkedin.com/in/zoemwangi.