

Kelyn Njeri

Senior Software Engineer

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Summary

Senior Software Engineer with 7+ years building scalable systems and leading engineering teams. Expert in Python, Golang, and Typescript, with proven success leading distributed teams and implementing microservice solutions.

Education

University of London , London, England Master of Science, Computer Science (Online)	April 2027
Massachusetts Institute of Technology , Boston, U. S. A Applied Data Science Program: Leveraging AI For Effective Decisions	April 2024
Laikipia University , Nyahururu, Kenya Bachelor of Science, Computer Science - Graduated with honors, Second Class Upper Division.	December 2022

Experience

PowWater , Nairobi, Kenya Senior Software Engineer	March 2024 - Present
<ul style="list-style-type: none">Automated the dispatch process (fill site assignment, route optimization and fleet management), reducing delivery time from 3 hours to 1.5 hours and maximizing driver efficiency.Redesigned the logistics platform in React, significantly improving user experience and boosting live operations productivity.Implemented unit, integration and end-to-end tests, improving code quality and reducing bug-fixing time.Conducted test and focus groups to gather feedback, driving continuous improvements in dispatch systems and the logistic platform.	
Backbone Technologies , Nairobi, Kenya Lead Software Engineer	July 2022 – Present
<ul style="list-style-type: none">Built the entire backend for a fintech platform, digitizing and automating accounting processes for SMEs, enhancing financial management and operational efficiency.Integrated Plaid for real-time bank connectivity and Modern Treasury for interbank transfers, enabling seamless financial operations for SME users.Implemented Stripe for secure payment processing, allowing businesses to receive payments directly from customers.Designed and deployed a data pipeline to support machine learning use case in v2, unlocking advanced analytics and insights for platform growth.	

Naya Labs, Washington D.C, USA
Senior Software Engineer

January 2022 - March 2024

- Mastered Svelte within a week to develop a responsive frontend for the Veenly new aggregation platform, integrating the News API hence enabling dynamic content delivery and improving platform functionality.
- Reduced API latency by 30% on the Omni arsenal project by optimizing SQL queries, enhancing system responsiveness and improving overall user experience.
- Implemented AWS Cognito for secure authentication and federated identities, enhancing platform security and user trust.

Sono Labs, Nairobi, Kenya
Software Engineer

April 2021 – January 2022

- Built a Flutter-based nutrition app with TensorFlow and Python, delivering personalized recommendations and seamless nutrition tracking, leveraging innovative machine learning capabilities.
- Developed a machine learning-powered food detection system using Computer Vision and TensorFlow, automating accurate food entry logging and enhancing user convenience

Fundle Money, Kigali, Rwanda
Lead Software Engineer

February 2021 – April 2021

- Led team to build financial literacy search engine in Python/Flask and Elasticsearch, revolutionizing financial information access for our users.
- Directed testing infrastructure implementation across the team, achieving 99.9% system reliability through comprehensive test coverage.
- Spearheaded NLP model development (TensorFlow) and microservices architecture, delivering scalable voice-search capability, reducing search time by 60%.

Independent Software Consultant, Nairobi, Kenya
Software Engineer

August 2017 – January 2022

- Architected and delivered scalable web applications using Python (Django/Flask) and JavaScript, improving system performance by 40% through optimized database queries and Redis caching
- Engineered robust RESTful APIs and microservices using Django REST Framework and Flask, supporting high-volume transactions for multiple startup clients
- Orchestrated successful cloud migrations between AWS and GCP, ensuring zero downtime while maintaining system integrity
- Mentored junior developers in Python best practices and implemented standardized coding patterns that improved code quality and reduced technical debt by 45%

Skills & Interests

Programming Language: TypeScript, Golang, Rust, Python

Frameworks: NextJS, NestJS, Express, React, Fast API, Pytorch, TensorFlow, Scikit-Learn, NumPy, Pandas, Matplotlib, Plotly, Seaborn, Expo, React Native, Flutter, Tailwind, Chakra UI, Bulma

Databases: MongoDB, PostgreSQL, MySQL, Neo4J, Redis, Cassandra

Cloud Providers: AWS, GCP, Supabase, Appwrite, Digital Ocean