Kelyn Njeri

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Fullstack Software Engineer whose main languages are **Java, Golang, Python,** and **Typescript.** Strong communicator and team player with a proven track record of delivering efficient and user-focused solutions.

EXPERIENCE

Naya Labs, Washington D.C, United States of America — Lead
Senior Software Engineer (Fullstack)

JANUARY 2022 - PRESENT

Worked alongside and led a team of Software Engineers to build a DevOps Application, Fintech Application, and a News Aggregation platform.

Key Achievements as a **Senior Software Engineer** on the Veenly Project:

- Spearheaded the development of sleek and intuitive web application user interfaces, demonstrating expertise in front-end development.

- Successfully managed team timelines, ensuring seamless execution of code sprints and efficient project delivery.

- Leveraged Svelte framework to meticulously craft user interfaces that precisely adhered to the company's meticulous UI/UX designs, resulting in a superior user experience.

- Translated intricate company design specifications into robust and scalable business functionalities, contributing to the project's overall success.

- Collaborated closely with end users to gather requirements, ensuring accurate implementation of desired functionalities and aligning the development process with user expectations.

- Optimized SQL queries to enhance API performance, achieving a remarkable 30% reduction in latency, thereby significantly improving the overall system responsiveness.

- Orchestrated the seamless migration of existing software infrastructure from AWS to GCP, streamlining operations and leveraging the advanced capabilities of the Google Cloud platform.

- Demonstrated strong leadership skills by guiding and supervising a team of engineers in resolving critical bugs from the backlog, ensuring high-quality deliverables.

- Thrived in a distributed team environment, successfully delivering top-notch code to multiple clients worldwide, thereby establishing a reputation for consistently meeting global client expectations.

LANGUAGES

Python

Golang

TypeScript

Java

HTML

CSS

NodeJS

SQL

FRAMEWORKS

ReactJS

Svelte

React Native

Flutter

Flask

Tensorflow

DATABASES

MongoDB

PostgreSQL

MySQL

CLOUD

AWS

GCP

Key Achievements as the **Lead Backend Engineer** on the Backbone Project:

- Demonstrated expertise in architecting and meticulously documenting the robust backend infrastructure, ensuring scalability and efficiency in system operations.
- Collaborated closely with the founder to elicit comprehensive functional and non-functional system requirements, aligning the development process with the project's strategic vision.
- Leveraged cutting-edge technologies, including Spring Boot, TypeScript, and NestJS, to develop multiple microservices, establishing a highly performant and scalable backend ecosystem.
- Successfully deployed production-ready code to industry-leading cloud platforms, specifically AWS Fargate and AWS EKS, ensuring seamless integration and optimal utilization of cloud resources.
- Implemented effective inter-service communication by utilizing Amazon SQS as a reliable message broker, facilitating efficient data flow and enhancing overall system reliability.
- Collaborated seamlessly with fellow engineers, playing a crucial role in integrating various backend components, fostering cross-functional teamwork, and ensuring the project's overall success.

DEVOPS

GitHub Actions

Kubernetes

Docker

Travis CI

Circle CI

AWS ECS

AWS Fargate

Headhuntx, Nairobi, Kenya — Founder & *Chief Technology Officer (CTO)*

OCTOBER 2022 - PRESENT

My role as CTO entails:

- Vision and Strategy: Defining the long-term vision and strategy for the company, identifying target markets, and outlining growth opportunities by setting ambitious goals and guiding the team toward achieving them.
- Leadership and Team Management: Building and leading a high-performing team by providing guidance, mentorship, and support to my team members.
- Product Development and Innovation: Overseeing the development and improvement of the job matching platform, ensuring that it meets the needs of both job seekers and employers by staying informed about industry trends, emerging technologies, and user feedback.
- Business Development and Partnerships: Identifying strategic partnerships and collaborations that can enhance the platform's reach and value proposition by building relationships with key stakeholders to foster business growth and establish the platform as a trusted solution.
- Financial Management: Monitoring key financial metrics, seeking investment opportunities, and ensuring the company's financial sustainability.
- Customer Experience and Satisfaction: Prioritizing user satisfaction by continuously improving the user experience, addressing customer

ARCHITECTURE & DESIGN SKILLS

Database Design

Microservices Design

Command Query Responsibility Segregation (CQRS)

Design Patterns

Event-Driven Microservice Architecture

Domain Driven Design (DDD)

Distributed Systems

feedback, and implementing strategies to enhance the platform's value proposition for both job seekers and employers.

- Industry and Market Analysis: Using market insights to drive strategic decision-making and ensure that the platform remains competitive and relevant.
- Legal and Compliance: Prioritizing data security and privacy for all platform users.

Fundle, Kigali, Rwanda — *Lead Software Engineer (Fullstack)*

JANUARY 2022 - APRIL 2022

Led a team of Software Developers to build an innovative project that scales seamlessly and delivers basic Financial Literacy info to the users.

Key Achievements:

- Developed an innovative financial literacy search engine using Python/Flask and Elasticsearch, enabling users to access comprehensive financial information efficiently.

- Designed and implemented a state-of-the-art natural language processing model using Tensorflow, empowering users to perform voice-based searches within the platform.

- Architected a robust and scalable event-driven microservice architecture using Python/Flask, optimizing system performance and ensuring seamless communication between services.

- Successfully planned and organized weekly sprints using ClickUp, enhancing team productivity and ensuring timely project deliverables.

- Led the development of the Payment microservice using Flutterwave as a Payment gateway, enabling secure and seamless trading with real cash on the platform.

- Utilized Stripe for subscription management, ensuring smooth and reliable handling of user subscriptions.

- Developed a comprehensive financial literacy application using Flutter, providing users with an intuitive and engaging mobile experience.

- Implemented Apache Kafka as a messaging queue, enabling reliable and efficient inter-service communication across the platform.

- Integrated the backend seamlessly with the mobile app, ensuring seamless functionality and a cohesive user experience.

- Established a robust CI/CD pipeline using GitHub Actions, automating the deployment process of app bundles to the Apple Store and Google Play Store.

- Created a sophisticated loyalty reward system using Python, enhancing user engagement and retention within the platform.

- Conducted extensive codebase refactoring and cleanup, aligning the codebase with current industry best practices and ensuring maintainability and scalability.

Sono Labs, Nairobi, Kenya — *Software Engineer*

APRIL 2021 - JANUARY 2022

Worked with other Software Developers to build client-facing Mobile and Web Applications that scale in production.

Key Achievements:

- Developed an advanced Flutter Nutrition application, empowering users to effortlessly track their nutrition and receive personalized recommendations through a cutting-edge recommender system built using Tensorflow and Python.

- Implemented a sophisticated Machine Learning food detection system in Tensorflow and Python, automating the logging of food entries within the application for enhanced convenience and accuracy.

- Spearheaded the creation of CI/CD scripts for client-facing projects, streamlining the deployment process by automating builds and ensuring efficient and error-free releases.

- Leveraged Golang as the backend language of choice, enabling the seamless development of client-facing features and ensuring optimal performance and scalability.

- Successfully contributed to a PHP/Laravel Property Management System, demonstrating versatility in working with different technologies and frameworks.

- Integrated prominent payment gateways, including M-Pesa Daraja API, facilitating secure and reliable payment transactions within client projects.

Various Startups, Remote — *Senior Software Engineer*

MAY 2019 - JANUARY 2022

Collaborated effectively with talented teams to accomplish the following impactful achievements:

- Developed a scalable full-stack lottery web application utilizing Golang as the backend language, ReactJS for the front end, and Firebase as the database. This optimized architecture ensured efficient performance and seamless user experience.

- Implemented comprehensive testing strategies by creating and executing both unit and integration tests. This meticulous approach ensured the reliability and functionality of the application, enhancing its overall quality.

- Successfully optimized application performance by significantly reducing the number of database calls. This streamlined data retrieval

and processing, resulting in faster response times and improved user satisfaction.

- Implemented a robust caching mechanism using Redis, enhancing the application's responsiveness and reducing data access latency. This optimization significantly improved the overall performance and scalability of the system.

- Employed design thinking methodologies during collaborative sprints to thoroughly understand and address client requirements. This enabled us to deliver tailored solutions that met and exceeded client expectations, fostering long-term partnerships.

- Crafted a visually appealing and user-friendly User Interface (UI) for the website. By leveraging industry best practices and UI design principles, I created an engaging and intuitive interface that enhanced the overall user experience.

- Successfully built and seamlessly integrated the website with a Content Management System (CMS). This enabled easy content updates and management, empowering the client to maintain an up-to-date and dynamic online presence.

- Implemented backend optimizations to minimize latency and enhance data loading on the front end. I significantly improved system performance and user satisfaction by employing efficient algorithms, database query optimizations, and code refactoring.

Various Startups, Remote — *Junior Software Engineer*

AUGUSTL 2017 - APRIL 2019

Here are some of my notable accomplishments:

- Codebase Cleanup: I streamlined and enhanced complex codebases, improving readability and maintainability.

- Data Migration: I successfully migrated user data between databases without disruptions, ensuring data integrity.

- Scalable Software Products: I developed robust software products designed for scalability and easy maintenance.

- Seamless Web-Mobile Transition: I assisted users in transitioning between web and mobile platforms effortlessly.

- Small Business Digital Presence: I helped small companies establish a strong online presence.

- User Interface Design: I created intuitive and visually appealing user interfaces.

- Performance Optimization: I optimized software performance, enhancing responsiveness and reducing load times.

- Codebase Maintenance: I diligently maintained and ensured the stability of critical codebases.

EDUCATION

Laikipia University, Nyahururu, Kenya — *Bsc Computer Science*

AUGUST 2017 - MAY 2022

Majored in Software Development. Fundamental modules were: Data Structures and Algorithms, Object Oriented Programming, System Analysis and Design, Web Design, and Development, Internet of Things, Principles of Software Engineering, Artificial Intelligence, and Database Design.