Ndirangu C

Backend Developer, 6+ years experience
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I'm an experienced Software engineer, I am focused on shipping good product experiences for the customers and also passionate about using my innovation skills to build applications that scale. I have been involved in coming up with solutions to solve problems in the logistics, travel and data platforms. I currently work in Fintech Tools Languages: Golang, Javascript, Typescript, Python Frameworks: ReactJS, Apollo GraphQL, NextJS, Chakra-UI, Tailwind CSS/UI Components, Bootstrap Protocols: GraphQL, REST, HTTPs Messaging platforms: Kafka, AWS Kinesis, AWS SQS Infrastructure Tools: Docker, Gitlab CI, Github actions, Travis-CI, Circle-CI Cloud: AWS, Heroku, GCP Other interests: Domain driven design, Event-sourcing, testing, containerization, computer science fundamentals, distributed systems, agile development methodologies, third-party integrations, content delivery networks, data storage design.

INDUSTRIES: OpenSource

TECHNICAL SKILLS

• golang	5 years & 5 months
• Python	4 years
• AWS	4 years & 5 months
• Terraform	4 years & 5 months
• Node.js	3 years

SOFT SKILLS

Ownership, Problem-solving, Teamwork, Critical thinking

PROJECT DETAILS

• A customizable rate limiter for Go applications — May-2023 - January-2024

Project Description: Rate Limiter empowers you to control the rate of incoming requests in your Go applications, safeguarding against excessive traffic and potential overload. It offers a flexible configuration to tailor its behavior to your specific needs.
Responsibilities: Design, Build and maintain the library. Key features developed include Customizable threshold: Define the maximum number of requests permitted within a specified duration. Customizable duration: Set the time window within which the threshold is applied. Reset: Clear the rate limiter's internal state, enabling a fresh start.
Technologies: Golang, Github Actions
Industry: OpenSource

• A Minimal Logging Library for Go Applications — January-2023 - January-2024

Project Description: This library offers a straightforward and adaptable way to log messages with varying severity levels to different destinations, such as files.
Responsibilities: Design, Build and maintain the library key features include Log messages with severity levels: Debug, Info, Warning, Error. Customize log format: Include timestamp, log level, and message. Support for logging to files: Future expansion planned for additional destinations.
Technologies: Golang, Github Actions
Industry: OpenSource

EMPLOYMENT HISTORY

• Backend Developer August-2021 - July-2023

Description: Spearheaded the transformation of Cadana's platform, evolving it from a payroll processing engine into a comprehensive Employer of Record (EOR) solution. This shift empowered companies to seamlessly scale their engineering teams across diverse geographical regions with complete compliance. • Conceptualized and built a contract management service, revolutionizing how customers handle employee and contractor agreements directly within the platform, ensuring legal compliance and efficient contract management. • Led the design and development of a robust multi-tenant permissions service within the Cadana platform, facilitating granular access control and tiered user privileges. • Worked with a cross-functional team to design and develop a document sharing feature that enhanced business processes between operations teams and customers. • Enhanced platform observability by building a custom metrics collection library that was utilized by all API workflows across microservices in production, I utilized Go (Golang) and AWS SQS SDK. The metrics were pushed to AWS Cloudwatch which visualized API performance providing comprehensive insights into API request handler behaviors. • Enhanced security through developing a custom rate limiting library and added it as part of the API gateway's authentication flow. This Go-based service identifies malicious actors and safeguards the platform from unauthorised access. • Streamlined error monitoring for the backend infrastructure by utilizing Python, Go, and SQS to develop a library that categorizes errors according to severity and send the alerts to PagerDuty, our on-call platform. • Technologies: Golang(Gorilla mux router, Go testing framework stretchr), Python, AWS(EC2 and Lambda for compute, SQS for , SNS for sending notifications, Kinesis for streaming data, Cloudformation for IAC, Cognito for Authentication and Authorization)

• Frontend Lead August-2020 - September-2021

Logistify AI

Description: Led the design and build of the fulfilment platform's web UI using Javascript, React and Tailwind CSS styled components. This focus on responsive and reusable UI components ensured a seamless and consistent experience across all devices. • Recognising the needs of field personnel, I re-engineered the UI to prioritise mobile access. This empowered fulfilment personnel to complete orders efficiently on the go. • Collaborated with the backend team to design and implement a GraphQL API using Apollo GraphQL and Node.js. This implementation facilitated seamless data exchange, allowing the creation of near real-time dashboards powered by Chart.js. These dashboards empowered hub managers to visualize key metrics and make informed decisions regarding cost reduction and revenue growth. • Technologies: HTML, CSS, Javascript, Typescript, React, Next.js, Apollo GraphQL, Nodejs, Chart.js

• Full Stack Developer June-2019 - September-2020

MEST Africa

Description: • Led a team of three engineers, providing technical guidance in the design and development of initial iterations for both the travel experience discovery service and the booking service. • Took the initiative and got involved in requirement gathering process, authored the design document for all services, and designed the backend infrastructure for AWS deployment using Terraform. • Created a custom event-sourcing library in Go that utilizes Apache Kafka to facilitate seamless communication between services. • Built responsive web UIs using Typescript/Javascript, React.js, Next.js, Node.js, and CSS-in-JS for a seamless user experience. • Defined GraphQL types representing the data model for the travel experience marketplace. • After 3 development cycles and early client testing we reduced experience discovery from 4 to 2 steps and booking flow by 4 steps, ultimately boosting bookings by 20%. • Technologies: Golang(Gin for routing, Stretchr for testing), Python(Flask), AWS(EC2 and Beanstalk for compute, RDS(PostgreSQL)), Apache Kafka, Typescript, React.js, Next.js, CSS-in-JS, GraphQL

• Full Stack Developer January-2018 - December-2018

@ilabAfrica

Description: • As part of the Ministry of National Planning's census data collection efforts, I joined the data analytics team to build a robust platform. • Designed and implemented APIs using PHP-Laravel framework for efficient data capture and processing. • Utilized MySQL for secure and scalable data storage, and integrated Redis for optimized caching performance. • Built responsive and user-friendly web interfaces using Javascript, React.js and CSS-in-JS styled components. • Incorporated interactive business intelligence visualizations powered by Tableau APIs to provide clear and actionable insights into the collected census data. • Technologies: PHP(Laravel), Javascript, React, MYSQL, HTML5, CSS3

EDUCATION

• Bachelors degree in Computer Science from Strathmore University 2014 - 2015

LANGUAGES

• English - native

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