# Yimer A

Backend Developer, 5+ years experience
Addis Ababa, Ethiopia
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Developing high-performance REST APIs, microservices, and web and mobile apps, Specializing in Go/Golang, Node.js, AWS, and Kubernetes. Engineered a platform that increased accessibility by 50% and a Vehicle Inspection System that reduced time by 80% in 11 months. Effective communicator & collaborator.

**INDUSTRIES:** Transportation, Entertainment, Finance, Compliance

## TECHNICAL SKILLS

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|---|---|
| • RESTful APIs | 6 years |
| • REST APIs | 6 years |
| • golang | 5 years & 1 months |
| • Git | 5 years |
| • Testing | 5 years |
| • Docker | 5 years |
| • PostgreSQL | 4 years |
| • Microservices | 4 years |
| • Firebase | 3 years |
| • Kubernetes | 3 years |
| • Redis | 3 years |
| • Node.js | 2 years |
| • AWS | 2 years & 5 months |
| • Flutter & Dart | 2 years |
| • Apache Kafka | 2 years |
| • Flutter | 2 years |
| • Python | 1 years & 6 months |

## SOFT SKILLS

Creativity, Analytical, Communication, Collaboration

## PROJECT DETAILS

• Vehicle Inspection System October-2018 - October-2019

Project Description: The Vehicle Inspection System project aimed to revolutionize how ride service companies, drivers, and garages in Ethiopia manage critical aspects such as inspection reports, human resources, revenue, invoices, and driving start decisions. The ultimate goal was to create a powerful tool that streamlined operations, improved efficiency, and drove positive impacts across the industry, empowering stakeholders to enhance their services and ensure compliance with regulatory requirements.

Responsibilities: • Spearheaded the software development of a highly scalable and available backend infrastructure for the Vehicle Inspection System (VIS), utilizing cutting-edge technologies including Go/Golang, PostgreSQL, Apache Kafka, Docker, Kubernetes, and Git. • Developed Go/Golang microservices, REST/RESTful APIs, and web services, ensuring smooth communication through a rigorous Test-Driven Development (TDD) approach, enhancing performance and reliability. • Implemented event-driven communication using Apache Kafka and GRPC synchronous communication, ensuring seamless interactions between components. • Utilized the power of Go/Golang and employed SQL DBMS PostgreSQL for efficient data storage, Redis & Memcached for caching, and enhancing system performance. • Adopted a hexagonal architecture to organize the codebase, managed version control, and facilitated CI/CD using Git, streamlining the development workflow. • Orchestrated deployments with Docker and Kubernetes, optimizing system deployment on AWS and contributing to a more agile and scalable development environment. • Collaborated with the front-end team to develop user pages and dashboards using HTML/CSS, Bootstrap, Javascript, and React, enhancing the user experience and overall system functionality. • Revolutionized vehicle inspection processes for ride service companies, drivers, and garages in Ethiopia through the implementation of the Vehicle Inspection System (VIS). • Enabled three ride service companies, over 20,000 drivers, and more than 300 garages to efficiently manage inspection reports, human resources, revenue, invoices, and driving start decisions within the Ethiopian ride service industry.

Technologies: Go, Golang, Kubernetes, Docker, Microservices, REST/RESTful APIs, CI/CD, GitHub, Redis, Firebase, Git, PostgreSQL, JavaScript, HTML/CSS, SQL, gRPC, Apache Kafka, TDD/Test-Driven Development, AWS, Bootstrap, Web Services, React

Industry: Transportation

• Sewasew Music Streaming Platform May-2020 - May-2021

Project Description: The Sewasew Music Streaming app aimed to provide cost-effective, high-performance streaming for Ethiopian users, offering a platform tailored to their needs and preferences.

Responsibilities: • Architected a highly scalable and available Go/Golang backend system for the Sewasew Music Streaming Platform contributed significantly to the app's remarkable success, achieving a 4.3 user rating and serving over 300,000 users worldwide. • Implemented a Golang, PostgreSQL, GRPC, and RabbitMQ microservice backend software development architecture and REST/RESTful APIs to enhance modularity, scalability, and maintainability. • Implemented HLS (HTTP Live Streaming) for audio content in Golang, dynamically generating manifests for easy access to a diverse music catalog. • Crafted HLS manifests (M3U8 files) on the fly in Go/Golang and ffmpeg providing users with dynamic audio streaming while optimizing content delivery for varying network conditions. • Enhanced critical user engagement features in Golang, including user authentication, playlist management, adaptive streaming subscription, and payment gateway integration. • Implemented caching and logging strategies using Redis and Memcached to optimize backend performance, reducing server load and response times for a smoother user experience. • Leveraged Docker, Kubernetes,Git, CI/CD with AWS services (Amazon S3 for content storage, Amazon CloudFront as a CDN) to orchestrate a robust content delivery pipeline (DevOps), reducing latency and enhancing the global user experience. • contributed to a 4.3 user rating and over 500,000 downloads on the Play Store. Users worldwide now enjoy seamless music streaming with optimized content delivery tailored to varying network conditions.

Technologies: Golang, Docker, Kubernetes, CI/CD, Redis, PostgreSQL, Git, AWS, REST/RESTful APIs, Software Development, RabbitMQ, gRPC, FFmpeg, Amazon S3

Industry: Entertainment

Link: https://play.google.com/store/apps/details?id=com.sewasewmusic.music&pcampaignid=web_share

• RIDE PLUS October-2019 - May-2020

Project Description: Introducing RIDE Plus, a revolutionary platform that was conceptualized and brought to life in just 6 months, establishing itself as a trailblazer in the transportation industry. With over 45,000 users already benefiting from its secure and swift payment system, diverse package offerings, and subscription features, RIDE Plus has become synonymous with convenience and efficiency.

Responsibilities: • Launched RIDE Plus Platform in 6 months, empowering 45,000+ users with secure, fast payments, diverse packages, and subscriptions. Facilitated seamless payments for 50+ corporations managing employee taxi usage. • Developed microservices, REST/RESTful APIs, and web services using Golang, Go, NodeJS, PostgreSQL, Kafka, Docker, and Git, allowing flexibility and scalability. • Achieved a 25% performance improvement through Test-Driven Development (TDD) in one year. • Leveraged Go/Golang, NodeJS/Typescript,PostgreSQL (GORM) database, Apache Kafka , Bash/Shell Scripting, Docker, and Kubernetes for efficient containerization and software development. • Successfully deployed a resilient and highly available solution on AWS, utilizing Git and GitHub for organized version control, and collaborating with DevOps personnel to manage CI/CD pipelines and AWS clusters for both development and production environments. • Empowered over 45,000 users to experience secure and fast payments, benefitting from diverse packages and subscription options that streamline transactions and enhance user convenience. The platform, boasting over 50,000 downloads on the Google Play Store, has additionally empowered 50+ corporations, enabling them to efficiently manage and pay for employee taxi usage through the application

Technologies: Golang, Microservices, Docker, Kubernetes, CI/CD, Git, REST/RESTful APIs, PostgreSQL, DevOps, TDD/Test-Driven Development, Node JS, Typescript, Apache Kafka, AWS

Industry: Transportation

Link: https://play.google.com/store/apps/details?id=com.ridetm&hl=en&gl=US

• EQUB May-2021 - June-2022

Project Description: Equb is an alternative means to achieve savings and improve access to credit by rotation of savings. Individuals agree to pool their savings for a defined period to jointly save by creating an eQub. Equb is an innovative solution that helps individuals achieve savings and access credit through savings rotation. Members pool their savings in eQubs and randomly selected winners claim the funds in a turn. My contributions as a backend developer include optimizing the app for scalability, implementing robust APIs, and ensuring a seamless user experience.

Responsibilities: • Led the design, development, maintenance, and optimization of a scalable and modular backend for financial enterprise systems, making strategic architectural and design decisions to achieve an efficient distributed architecture. • Leveraged Go (Golang), Typescript, Docker, Kubernetes, MySQL, and Algorithms and Data Structures. • Developed and integrated high-performance Go/Golang REST/RESTful APIs and microservices on Google Cloud Platform (GCP), serving 5000+ users. • Transitioned Golang GORM library to the PGX, reducing MySQL database queries by 30%. • Automated deployment using Git, containerization, Bash/Shell Scripting, GitHub Action CI/CD, and Google Cloud Platform (GCP), significantly reducing the deployment time. • Designed and integrated a customized Golang router to prevent major security breaches on the server. • Managed increased user demand through RabbitMQ, Golang Concurrency, Redis Caching, and optimized Algorithms and Data Structures for excellent performance. • Utilized Flutter and Firebase for Mobile App Development, ensuring a seamless user experience and an intuitive interface

Technologies: Go, Golang,Flutter, Kubernetes, TypeScript, Docker, Google Cloud Platform, Microservices, REST/RESTful APIs, CI/CD, GitHub, Redis, Firebase, MySQL, Git, RabbitMQ, Mobile App Development, Agile, Scrum, Jira

Industry: Finance

Link: https://play.google.com/store/apps/details?id=com.equbapplication&hl=en&gl=US

• Equally AI June-2022 - January-2024

Project Description: Equally AI - an automated accessibility solution that makes websites compliant with the ADA & WCAG, while providing the best experience for your beneficiaries.

Responsibilities: • Led the architecture, development, and release of the EQUALLY.Ai platform, expanding web accessibility and media accessibility by 50%. • Architected, developed, and deployed REST/RESTful APIs and Microservices using Golang, PostgreSQL, gRPC, Protocol Buffers, Apache Kafka, Docker, Kubernetes, Bash, Redis, & Git (Bitbucket), following a Test-Driven Development (TDD) strategy. • Achieved a 90-millisecond reduction in system latency by implementing Node.js/JavaScript/Express.js automation, and leveraging Golang concurrency features like channels, mutexes, wait groups, and efficient Algorithms and Data Structures. • Accelerated web code remediation by 70% for accessibility services by implementing Go/Golang libraries with ChatGPT API. • Led the integration of the Equally.AI widget into over 1000 websites, achieving a 50% improvement in web and media file accessibility. • Engineered a versatile, multi-licensed billing system using Golang and PayPal, allowing customers to design custom plans and increase revenue by 30%. • Architected and developed 12+ microservices, and REST APIs on Google Cloud Platform (GCP) & AWS Kubernetes clusters, and Firebase for higher functionality and scalability. • Instrumental in managing incident response, achieving a 25% reduction in the mean time to resolution (MTTR), and integrating Grafana for impact mitigation of bug fixing.

Technologies: Go,Golang, REST/RESTful APIs,Firebase,GRPC,Apache Kafka,Docker,Google Cloud Platform,Kubernetes, PostgreSQL, Redis, Grafana, JavaScript, NodeJS, Git, Express.js, Microservices, TDD/Test-Driven Development

Industry: Compliance

Link: https://equally.ai/

## EMPLOYMENT HISTORY

• Backend Developer

## CERTIFICATION

• Ultimate Go Web Service by Ardan Labs 2022

## EDUCATION

• Bachelors degree in Software Engineering from Addis Ababa University 2014 - 2019

## LANGUAGES

• English - native

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