

# YONAS

# KEMON

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Addis Ababa, Ethiopia

## SUMMARY

- 4+ years of experience in software development, specializing in full-stack and back-end technologies using Golang, Node.js, and React.
- Proficient in developing RESTful APIs, WebSocket, gRPC, GraphQL, and database management with PostgreSQL, SQL, DynamoDB, and MongoDB.
- Experience in designing scalable cloud platforms and microservices architecture using Docker and Kafka.
- Skilled at implementing robust authorization systems (RBAC, ABAC, ACL) using Open Policy Agent (OPA) for policy-based authorization and Single Sign-On (SSO) using OAuth 2.0 and OIDC.
- Skilled in Test Driven Development (TDD), Behavior Driven Development (BDD), and Agile methodologies.
- Proficient in using Git for version control and CI/CD pipelines for continuous integration and deployment.
- Expertise in building enterprise management systems, e-commerce platforms, payment gateways, ride-hailing services, and more.
- **Backend Instructor:** Developed and delivered comprehensive training programs covering topics like design patterns, API development, database design, testing, and Docker. Mentored trainees in Agile methodologies, guiding their progress through hands-on workshops and assessments.

## EDUCATION

**B.Sc. (Bachelor of Science) in Computer Science**, Hawassa University (2016-2020)

## TECHNICAL EXPERTISE

Backend Technologies : **Golang, Node.js, Express.js, gRPC, REST API, GraphQL**

Frontend Technologies : **React.js, Next.js, Redux, Material UI, Tailwind UI**

Programming Languages : **Golang, JavaScript, TypeScript**

Database Technologies	: CockroachDB, MongoDB, DynamoDB, PostgreSQL, SQL
Cloud Platforms	: AWS (EC2, S3, RDS, Lambda,VPC,...), DigitalOcean
Containerization	: Docker, Docker Compose
Message Brokers	: Kafka, RabbitMQ
Authorization & Security	: OAuth 2.0, OIDC, Open Policy Agent (OPA)
Version Control	: Git
Testing & Development	: Test-Driven Development (TDD), Behavior-Driven Development (BDD)
CI/CD Tools	: Gitlab CI/CD

## WORK EXPERIENCE

### Two-f Capital, Lead Back-End Developer

Addis Ababa, Ethiopia

**April 2022 – Present**

- Performed code reviews, ensuring code quality and adherence to best practices.
- Worked as a trainer for interns, providing guidance and mentorship.
- Collaborated closely with front-end developers to facilitate seamless communication and collaboration between teams.

#### Project #1:

**Role: Lead Back-End Developer**

**Project: Inverse Payment Gateway**

A flexible Payment Gateway system handling both subscription-based and one-time payments for Two-f Capital's projects. It integrates with local banks and global payment processor CyberSource to manage domestic and international transactions.

#### **Responsibilities:**

- Designed and developed a payment gateway for handling various payment options.
- Integrated payment processing with local and international banking systems.
- Performed code reviews to ensure quality and compliance with best practices.
- Integrated the payment gateway with sewasew multimedia, ride, etc...

**Environment:** Golang, REST API, WebSocket, PostgreSQL, Unit Test, Integration Test(cucumber, gherkin), Redis, AWS

#### Project #2:

**Role: Lead Back-End Developer**

**Project: Ride Plus (RideET)**

A leading ride-hailing service in Ethiopia. The project included extending billing systems, implementing a street pickup feature that allows users to take rides easily, and developing a customizable corporate program that enables companies to offer ride services to their employees. This fully customizable corporate program allows companies to set parameters such as day, hours, tip, and kilometers.

**Responsibilities:**

- Developed and managed the accounting system to track virtual wallet balances for drivers, users, and companies.
- Implemented scalable features like street pickup and corporate ride customization.
- Conduct code reviews

**Environment:** Golang, SQL, CockroachDB, Docker, Kafka, REST API, WebSocket, Unit Test, Integration Test(cucumber, gherkin), Redis

**Project #3:**

**Role: Lead Back-End Developer**

**Project: Multi-Tenant Authorization System**

A multi-tenant authorization system for a SaaS platform using Open Policy Agent (OPA). This system supports Role-Based Access Control (RBAC), Attribute-Based Access Control (ABAC), and Access Control Lists (ACL) to manage permissions across tenants. Organizations can dynamically configure policies based on their specific security needs.

**Responsibilities:**

- Implemented a robust authorization framework that supports multi-tenant environments.
- Managed user permissions and roles across different tenant configurations.
- Collaborated with stakeholders to ensure compliance with security policies and practices.

**Environment:** Golang, OPA, gRPC, REST API, CockroachDB Unit Test, Integration Test(cucumber, gherkin)

**Project #4:**

**Role: Back-End Developer**

**Project: Single Sign-On (SSO) System**

A secure and user-friendly Single Sign-On (SSO) system using OAuth 2.0 and OpenID Connect (OIDC) protocols. This system allows organizations to manage user authentication from a centralized platform, enabling seamless access across multiple systems and improving user experience by reducing login friction.

**Responsibilities:**

- Designed and implemented the SSO architecture to facilitate centralized authentication.
- Ensured the security and compliance of the authentication process.
- Collaborated with front-end teams to integrate SSO capabilities into existing applications.

**Environment:** Golang, OAuth 2.0, OIDC, CockroachDB, Unit Test, Integration Test(cucumber, gherkin)

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## **Mohas, Full stack Developer**

Addis Ababa, Ethiopia

**December 2022 – May 2023**

- Developed and maintained web applications using the MERN stack
- Collaborated with cross-functional teams to design and implement new features

### **Project #5:**

**Role: Full Stack Developer**

**Project: E-Commerce Product Listing Platform**

A complete platform that allows businesses to showcase and manage products efficiently. The platform provided a user-friendly interface for sellers and buyers to interact and manage transactions.

### **Responsibilities:**

- Designed and implemented both front-end and back-end components of the e-commerce platform.
- Collaborated with stakeholders to translate business needs into technical solutions.
- Developed user-friendly product listing and management user interface.

**Environment:** MongoDB, Express.js, React, Node.js, Redux, REST API, Typescript

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## **RCNDC, Full stack Developer**

Addis Ababa, Ethiopia

**August 2021 – March 2022**

- Developed and maintained web applications using the MERN stack
- Collaborated with cross-functional teams to design and implement new features

### **Project #6:**

**Role: Full Stack Developer**

**Project: Alga Hotel Booking Platform**

A hotel booking platform, including dashboards, back-end services, and database models. The system streamlined the booking process and enhanced user experience.

**Responsibilities:**

- Built back-end services and front-end components for the hotel booking system.
- Implemented dashboard user interfaces for hotel management and operations.

**Environment:** SQL, Sequelize, Express.js, React, Node.js, Typescript, Redux, GraphQL

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## **Kluff, Backend Developer**

Texas, United States

**January 2024 – Aug 2024**

**Project #7:**

**Role: Back-End Developer**

**Project: Kluff ERP System**

A highly customizable ERP platform that allows businesses to tailor the system according to their unique workflows and data structures, reducing implementation time and costs.

**Responsibilities:**

- Developed the back-end architecture to support customizable modules and workflows.
- Collaborated on building scalable APIs to handle dynamic configurations.
- Developed a dynamic authorization system using OPA with multi-tenant support

**Environment:** Golang, REST API, WebSocket, gRPC, PostgreSQL, Next.js, OPA, Redux

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## **Paymax, Backend Developer**

Lagos, Nigeria

**December 2023 – Aug-2024**

- Developed and maintained a restaurant ordering platform using a microservices architecture, leveraging both node.js and Golang for different services.
- Collaborated with cross-functional teams to design and implement new features

**Project #8:**

**Role: Back-End Developer**

**Project: Restaurant Ordering Platform**

A complete restaurant ordering platform using a microservices architecture, enabling users to order food from various restaurants, track their orders, chat with delivery personnel, and provide feedback.

**Responsibilities:**

- Developed back-end services to manage food ordering, delivery tracking, and user interactions.
- Implemented features for real-time chat between users and delivery personnel.
- Ensured scalability and flexibility by breaking down the platform into independent services for delivery, authentication, authorization, restaurant management, and feedback.
- Developed a scalable microservices architecture for a restaurant ordering platform, leveraging AWS for cloud-based solutions.

**Environment:** MongoDB, Express.js, Node.js, REST API, Golang, WebSocket, gRPC, Elasticsearch, SQL, AWS, Redis