

# Yordanos Dereje

Full-Stack Developer | Software Architect | DevOps Engineer | AI Engineer

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## Summary

Innovative and results-driven full-stack developer with 6+ years of experience designing and delivering high-performance web and SaaS applications. Proven expertise in system architecture, DevOps practices, and scalable microservices for global platforms. Strong leadership skills demonstrated by managing engineering teams and driving projects from concept to production.

## Technical Skills

**Programming & Frameworks:** Python, JavaScript/TypeScript, Go, Dart, Django, FastAPI, NodeJS, ReactJS, Express, Flutter, LangChain, WebSockets, REST, GraphQL.

**DevOps & Cloud:** AWS (EC2, S3, Lambda), GCP, Terraform, Ansible, Docker, Kubernetes, Prometheus, Grafana, CI/CD, Nginx, Linux, Bash.

**Databases & Messaging:** PostgreSQL, MongoDB, Redis, RabbitMQ, Celery.

**Tools & Methodologies:** GitHub Actions, GitLab CI/CD, Scrum, Jira, Confluence, Pytest, Cypress, Locust, Testrail.

## Key Project

### QBetPro | Co-founder & Lead Full-Stack Developer

Addis Ababa, Ethiopia | Oct 2023 – Oct 2024

- Co-founded and led development of a **multi-tenant casino gaming platform** empowering shop operators and platform owners globally.
- Designed the **system architecture** from the ground up to handle **100K+ hourly requests with 0% downtime**, enabling seamless scalability and high availability.
- Architected shop management tools including per-tenant branding, individual game instances, and dynamic profit algorithms tailored for each operator.
- Built **real-time analytics dashboards** providing deep insights into tenant and shop performance for data-driven decision making.
- Delivered customizable features like game rules, odds algorithms, time zone, and currency support for global operations.
- Oversaw a distributed engineering team through all phases: MVP development, production deployment, and scaling.
- **Tech Stack:** Python, Django, ReactJS, Electron, Celery, Redis, RabbitMQ, PostgreSQL, Docker, Nginx, Prometheus, Grafana, CI/CD.
- **Demo:** [Tenant App](#) | [Retail Shop App](#)

## Professional Experience

### Seeb.AI | Full-Stack Developer & AI Engineer

United States (Remote) | Dec 2024 – Present

- Led the development of **AI-powered voice agents** powered by multimodal LLMs, enabling **human-like conversations across multiple channels**:
  - **Web text chat, email, web voice chat, phone calls, and SMS**
  - Outbound call capabilities allowing the AI agent to proactively reach out to clients.
- Designed and implemented **real-time calling and messaging features** by integrating **Twilio APIs** and building advanced audio processing pipelines with **FFmpeg**.
- Architected **OAuth2-based integrations** to securely connect with external platforms, enabling automated workflows such as lead creation, call logging, and CRM updates.
- Oversaw **DevOps operations**, managing multi-container deployments with Docker/Docker Compose and implementing CI/CD pipelines for seamless scaling and reliability.
- Built robust monitoring systems with **Grafana, Prometheus, and Loki** to ensure system health and high availability.
- Delivered solutions now actively used **globally by law firms, insurance companies, and telemarketing teams** to streamline operations and enhance client engagement through intelligent voice automation.
- **Tech Stack**: NestJS, LangChain, Python, Docker, RabbitMQ, WebSockets, Twilio, Stripe, FFmpeg, multimodal LLMs, Grafana, Prometheus, Loki.

### Nucleus | Lead Full-Stack Developer

Victoria, BC (Remote) | Oct 2024 – Jan 2025

- Led the design and development of **two GenAI-powered applications** transforming user experiences in education and entertainment.
- **QuizRxAI**: Aimed at medical students, this app generates engaging, competitive quiz questions on-demand using LLMs. It includes an AI assistant that analyzes incorrect answers and offers targeted guidance for knowledge gaps.
- **Eido**: A recommendation platform leveraging LLMs and knowledge graphs to suggest movies, music, and books tailored to user preferences, enabling highly personalized discovery.
- Collaborated cross-functionally to integrate **LLMs, vector databases (Pinecone), and knowledge graphs (Neo4j)** into production systems.
- Designed scalable APIs with **FastAPI** for GenAI services and built client applications with **Next.js** and **Apollo Server** for seamless UI/UX.
- Deployed and maintained services on **GCP**, implementing CI/CD pipelines to ensure rapid iteration and zero downtime.

- **Tech Stack:** Python, FastAPI, Pinecone, Neo4j, MongoDB, Next.js, Apollo Server, GCP.

### **Awura Computing | Lead Full-Stack Developer**

*Addis Ababa, Ethiopia (Remote) | Aug 2022 – Nov 2023*

- Led development of two SaaS platforms transforming healthcare and event management:
  - **OwlEvents:** A multi-tenant event management app enabling businesses to organize events, sell tickets, find vendors, and monitor attendees. Post-launch, it secured prominent organizers and achieved **11,000+ ticket sales in 3 months**.
  - **MuluG:** A dynamic hospital management system providing tools for physicians to track patient health, use custom follow-up forms, and access real-time analytics.
- Designed and implemented **real-time analytics dashboards** and complex user management systems.
- Managed frontend and backend teams, oversaw code reviews, and set up CI/CD pipelines for seamless deployments.
- Built highly interactive UIs using ReactJS and implemented backend APIs with Django and Celery.
- **Tech Stack:** ReactJS, Material UI, Redux, WebSockets, Django, Celery, Redis, RabbitMQ, PostgreSQL, Docker, Nginx, Cypress, GitHub Actions

### **iWork Technologies | Full-Stack Developer & Automation Engineer**

*Denver, Colorado (Remote) | Apr 2021 – Sept 2022*

- Contributed to the development of a **post-quantum cryptography platform** safeguarding financial institutions and government agencies from emerging quantum security threats.
- Designed automation tools to **periodically test entire system clusters**, generate reports, and send alerts via Slack and email to ensure proactive issue resolution.
- Worked closely with DevOps teams to manage containerized environments using Kubernetes and Terraform.
- Implemented robust monitoring and testing pipelines with SonarQube and Testrail for continuous system reliability.
- **Tech Stack:** Python, NodeJS, Bash, WASM, Docker, Kubernetes, Helm, Terraform, Ansible, AWS, GitLab CI/CD, Envoy, SonarQube

## **Rica Technologies | Full-Stack Developer**

*Addis Ababa, Ethiopia (On-site) | Feb 2021 – Apr 2021*

- Developed two major consumer-facing applications:
  - **Rica Shopping:** An e-commerce platform with social features enabling users to discover, buy, sell, and discuss products, fostering a vibrant online shopping community.
  - **Rica Ride:** A ride-hailing app featuring a **loyalty rewards system** where users collect coins redeemable for prizes.
- Implemented authentication systems, integrated mass SMS advertisements, and optimized backend workflows for scale.
- Delivered cross-platform mobile and web applications using Flutter and MERN stack technologies.
- **Tech Stack:** NodeJS, Express, MongoDB, ReactJS, Flutter, Nginx, AWS, PM2

## **PrimalApps | Python Developer**

*Addis Ababa, Ethiopia (Remote) | Jun 2020 – Sep 2020*

- Built and deployed production-ready automation tools and bots that rapidly gained traction:
  - **Telegram Voice Chat Bot:** Designed and implemented a voice chat matching system where users could connect based on their discussion topics and preferences. Integrated a paid subscription model for advanced features like gender-based filtering. Achieved **1,500+ active users in the first week**.
  - **Web Scraper Pipeline:** Developed a real-time web scraping solution for an e-commerce client, monitoring competitor sites for product updates and pricing intelligence.
- Delivered robust Python solutions for real-time operations and integrated with Telegram APIs for automation at scale.
- **Tech Stack:** Python, Telegram API, Selenium, BeautifulSoup, Linux, Bash

## **Education**

### **Unity University, Addis Ababa**

*Bachelor of Science in Computer Science | 2017 – 2021*

- **Key Courses:** Assembly, C++, Java, OOP, Compilers, Algorithms, Data Structures, SQL, Database design, Computer Architecture, Operating Systems, System design, Machine learning.