

Ephrem Demelash

Addis Ababa, Ethiopia • contact@ephrem.dev • +251 91 169 6063
linkedin.com/in/ephrem-demelash • github.com/ephremdeme • ephrem.dev

PROFESSIONAL SUMMARY

Backend/Full-Stack Developer with 6+ years of experience architecting resilient Node.js microservices, serverless pipelines, and automated liquidity engines. Currently pivoting to Web3 with hands-on experience building crypto exchange infrastructure and DeFi automation. Proven track record of 10x performance improvements, 99% data accuracy, and delivering \$10M valuation products.

PROFESSIONAL EXPERIENCE

BoxExchanger — Backend Developer

Feb 2023 – Present

Remote

- Reduced manual LP management by 95% via custom Uniswap V3 automation with Node.js, TypeScript, and AWS Lambda
- Added live ROI dashboards with telemetry into Grafana/Prometheus for real-time monitoring
- Shipped custody-safe withdrawal engine with TypeScript guardrails ensuring secure transactions

Tech: **Node.js • TypeScript • AWS • Uniswap SDK • GraphQL • DynamoDB**

Addis Software — Full Stack Developer

Apr 2021 – Feb 2023

Addis Ababa · Hybrid

- Rebuilt AffCollect into microservices achieving 90% operations efficiency and \$10M valuation
- Delivered 10x faster aggregation using Kafka message queues and concurrent web scraping
- Launched payments, reviews, and verification for YegnaHome resulting in 5x user engagement

Tech: **Next.js • Node.js • Kafka • PostgreSQL • Redis • MongoDB**

Yellow Card Financial — Backend Developer

Mar 2020 – Apr 2021

Remote

- Implemented microservices in Node.js/TypeScript with AWS DynamoDB for pan-African crypto operations
- Improved onboarding throughput by 35% with AWS Cognito automation
- Hardened compliance workflows with role-based audit logging and security measures

Tech: **Node.js • TypeScript • AWS • DynamoDB • Cognito**

2F-Capital — Front End Developer

Oct 2019 – Apr 2020

Addis Ababa

- Built TypeScript/React admin portals for content, subscriptions, and analytics
- Implemented VictoryJS dashboards for driver subscription management

Tech: **React • TypeScript • Redux • Material UI**

KEY PROJECTS

BoxExchanger Liquidity Automation

- Automated Uniswap V3 liquidity rebalancing with 30% tighter spreads and 24/7 autonomous operations

Tech: Node.js • TypeScript • Uniswap V3 SDK • AWS Lambda

AffCollect Intelligence Platform

- Microservice mesh achieving 10x faster aggregation and 90% analyst efficiency boost

Tech: Node.js • TypeScript • GraphQL • Kafka • MongoDB

Cloudflare Workers Automation Suite

- Workers + Wrangler platform with auth, notifications, and form submission backed by KV, R2, D1, and Queues

Tech: Cloudflare Workers • Wrangler • TypeScript • h3 • KV • R2 • D1 • Queues

YegnaHome Rentals

- Vacation rental marketplace with 5x engagement through reviews, verification, and optimized caching

Tech: Next.js • Node.js • PostgreSQL • Redis • AWS S3

TECHNICAL SKILLS

Backend: Node.js, TypeScript, Python, GraphQL, Microservices, MongoDB, PostgreSQL, Redis, DynamoDB

Frontend: React, Vue, Next.js, Redux, Material UI

DevOps & Cloud: AWS, Docker, Git, GitLab CI/CD, Serverless, NGINX

Web3 & DeFi: Uniswap V3 SDK, Ethereum, Smart Contracts, Crypto Exchanges

EDUCATION

Bachelor of Science in Software Engineering

2015 – 2019

Adama Science and Technology University

- Best Project Award (AR Commerce Platform)
- ACM-ICPC Competitive Programming