Ephrem Demelash

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

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
Remote
Feb 2023 – Present

- 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
Addis Ababa · Hybrid
Apr 2021 – Feb 2023

- 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
Remote
Mar 2020 – Apr 2021

- 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
Addis Ababa
Oct 2019 – Apr 2020

- 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

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
Adama Science and Technology University
2015 – 2019
- Best Project Award (AR Commerce Platform)
- ACM-ICPC Competitive Programming