

# BIRUK EPHREM

## DevOps Engineer & Full Stack Developer

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## Summary

DevOps Engineer and Full Stack Developer with 5+ years of experience building scalable web applications, automating deployments, and implementing cloud infrastructure. Skilled in AWS, Docker, Kubernetes, and modern JavaScript frameworks. Passionate about creating efficient systems and leveraging AI/ML technologies.

## Experience

### DevOps Engineer

ETTA Solutions PLC | Addis Ababa | 2025-01 - Present

- Implement CI/CD pipelines to automate deployments and improve release cycles. Design and maintain scalable cloud infrastructure for client solutions. Improve system integrations and ensure high availability of services.

### Full Stack Developer

Faris Technologies | Addis Ababa | 2023-12 - 2025-02

- Developed ICT solutions for diverse business requirements. Contributed to aerospace and AI research initiatives. Built and maintained full-stack applications using modern frameworks.

### Full Stack Developer

Netib Consult | Addis Ababa | 2021-12 - 2023-12

- Designed and implemented user interfaces for web applications. Developed and managed backend servers and databases. Delivered end-to-end solutions for client projects.

### Web/Game Developer

Desert Rose | Addis Ababa | 2020-11 - 2021-06

- Digitized an existing board game for online multiplayer access. Designed UI/UX and implemented frontend and backend systems. Integrated game servers with Telegram bot for user engagement.

## Projects

### Attendance, Warehouse and Finance Management System

Tech: Node.js, MySQL, React

A comprehensive system built for Muntaha Foundation that automates beneficiary registration, attendance tracking, warehouse inventory management, and donation/payment tracking.

### Restaurant Order Automation

Tech: Node.js, MySQL

Developed for Luna Group. Automates restaurant order processing and generates financial reports integrated with cash register systems.

### Amharic Corpus Data

Tech: Python, Scrapy, Web Scraping

Collected Amharic language corpus data from web sources, PDFs, and social media. Published as an open-source dataset on HuggingFace for NLP research.

### Rental Property Management System

Tech: Next.js 15, React 19, Node.js, TypeScript, Express.js, TypeORM, MySQL, Socket.IO, TailwindCSS, Zustand, PM2, Nginx

A comprehensive full-stack rental property management system for Ethiopian commercial real estate. Features Ethiopian calendar integration (13-month system), custom SMS gateway via Socket.IO, automated payment scheduling, bank transfer verification, PDF report generation with Ethiopian font support, and role-based access control. Digitalizes the complete rental

lifecycle from tenant onboarding to payment reconciliation.

## Technical Skills

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**AI & Data:** LLM, LangChain, Ollama, Puppeteer, Scrapy, Transformers, Web Scraping

**Backend:** Laravel, Node.js, Python, RESTful API, TypeORM

**Cloud & DevOps:** AWS, Docker, Git, GitHub, Kubernetes, Linux Server, Nginx, Serverless

**Databases:** MongoDB, MySQL, VectorDB

**Frontend:** CSS3, HTML5, JavaScript, Next.js, Nuxt.js, React, SCSS, TailwindCSS, TypeScript, Vue.js

**Other:** C, C++, Java, Photoshop, WordPress

## Education

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### ALX - Software Engineering Program

*February 2022 - March 2023*

12-month intensive program with specialization in Backend Development

### Udacity - Cloud Developer Nanodegree

*August 2022 - December 2022*

AWS services, Full Stack applications on AWS, Serverless Framework

### Information Network Security Agency (INSA) - Cybersecurity Program

*March 2023 - May 2023*

Training in cybersecurity, mobile security and privacy, system security

## Languages

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Amharic (Native), English (Professional)