

Tamir Yirga

Full Stack Engineer

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Seattle, WA 98105

EDUCATION

Northeastern University

Masters Degree, Computer Science – GPA: 4.0/4.0

Sep 2024 – May 2026 (Expected)

Seattle, WA

- **Relevant Coursework:** Scalable Distributed Systems, Algorithms, Object-Oriented Design, Machine Learning, Computer Vision
- **Teaching Assistant:** Cloud Computing; Building Scalable, Distributed Systems
- **Research Apprentice:** LLM hallucination detection and evaluation with Prof. Hu

Addis Ababa University

Bachelors Degree, Civil Engineering

Addis Ababa, Ethiopia

EXPERIENCE

Software Engineer Intern

[Canaria](#)

Jul 2025 – Sep 2025

New York, NY

- Built end-to-end React data intelligence platform with multi-dashboard analytics, dynamic charts, and LLM-powered query interface
- Developed FastAPI service for text-to-SQL translation and dynamic chart generation, achieving 98% accuracy with <1s latency
- Engineered Kafka-to-PostgreSQL streaming pipeline maintaining rolling 2-month datasets to power real-time analytics dashboard
- Established monitoring and feedback loops leveraging engagement data to guide metric-driven improvements and boost adoption

Full Stack Engineer

[Scandiweb](#)

May 2022 – Aug 2024

Riga, Latvia

- Delivered full stack features across 7+ e-commerce projects using JavaScript, React, and PHP to serve enterprise customers
- Rebuilt checkout flows across multiple platforms, reducing cart abandonment by 18% through enhanced reliability and UX
- Led CMS refactor for large-scale storefront, modularizing content blocks, reducing new page code by 45% and accelerating updates
- Owned platform upgrades for newly onboarded client, refactoring 60%+ of legacy modules with zero post-deployment regressions

Full Stack Engineer

[Endubis Blockchain Solutions](#)

Apr 2021 – May 2022

Addis Ababa, Ethiopia

- Launched secure crypto wallet platform using Node.js and React, successfully onboarding 7K+ users within Telegram ecosystem
- Migrated backend from self-hosted nodes to scalable blockchain API, increasing uptime to 99.9% and cutting latency by 60%
- Built real-time Google Cloud Firestore data layer serving 3K+ active users, achieving wallet sync latency of <300ms globally
- Engineered SSL-secured web layer for transaction signing, overcoming Telegram security limitations while preserving UX

PROJECTS

Distributed KV Database

July 2025 – Present

- Built Java/Spring Boot distributed KV store on AWS EC2 with Leader-Follower architectures, W/R quorums, 5-node replication

Distributed Ski Tracker

Feb 2025 – Apr 2025

- Built Java/Spring Boot microservices on AWS processing 8K+ events/sec with RabbitMQ queues, DynamoDB, distributed caching

Job Scraping Pipeline

Mar 2025 – Apr 2025

- Built containerized Python/Scrapy ETL pipeline with Docker/Kubernetes, MongoDB, Redis for automated large-scale data processing

Recession Foresight Models

Mar 2025 – May 2025

- Developed 11 ML models for recession forecasting from 14 economic indicators, achieving 96% AUC with real-time dashboard

TECHNICAL SKILLS

Languages: Python, Java, JavaScript/TypeScript, Go, C++, SQL

Cloud & Infrastructure: AWS (EC2, S3, Lambda, ECS, CloudWatch), Azure, GCP, Docker, Kubernetes, Terraform

Data & Storage: PostgreSQL, MongoDB, DynamoDB, Firestore, Neo4j, Elasticsearch, Redis

Backend & Messaging: Spring Boot, FastAPI, Kafka, RabbitMQ, SQS, gRPC

Web & Tools: React, Next.js, Node.js, GraphQL, Git, Linux

ML/AI: PyTorch, TensorFlow, Transformers, LangChain, scikit-learn, pandas, NumPy, MLflow

CERTIFICATIONS & LEADERSHIP

Certifications: [Azure AI Engineer](#) (2021), [Azure Fundamentals](#) (2021), [Adobe Commerce Developer Expert](#) (2024),
[AWS Cloud Practitioner Foundations](#) (2024), CodePath Advanced Technical Interview Prep (2025)

Leadership: [Graduate Leadership Institute Fellow](#), Student Interest Group Leader (NU App Lab & NU Lead)