

Tamir Yirga

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Summary

Fullstack engineer specializing in distributed systems and modern web technologies to build scalable solutions that enhance user experiences and drive business value. Experienced in delivering production-ready features across the entire stack, with a passion for leveraging cloud-native architectures and emerging AI capabilities to solve complex technical challenges.

Education

Master of Science in Computer Science
Northeastern University • Seattle, WA

Sep 2024 – Dec 2026 (Expected)
GPA: 4.0/4.0

- Relevant Coursework: Building Scalable Distributed Systems, Machine Learning, Algorithms, Object-Oriented Design
- Research Fellow: Built evaluation tools for LLM hallucination detection and analysis with Prof. Yifan Hu
- Teaching Assistant: Cloud Computing; Building Scalable, Distributed Systems

Experience

Software Engineer Intern
Canaria • New York, NY

Jul 2025 – Present
Labor Market Intelligence Platform

- Built React-TypeScript platform with multi-dashboard analytics, interactive visualizations, and LLM-powered data querying
- Engineered Kafka-PostgreSQL streaming pipeline with real-time processing to maintain rolling datasets and power analytics
- Developed FastAPI microservices for text-to-SQL translation and dynamic chart generation, achieving 98% accuracy, <1s latency
- Implemented observability with monitoring dashboards and feedback loops to drive metric-based improvements and boost adoption

Full Stack Engineer
Scandiweb • Riga, Latvia

May 2022 – Aug 2024
Adobe Commerce E-commerce Agency

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

Full Stack Engineer
Endubis Blockchain Solutions • Addis Ababa, Ethiopia

Apr 2021 – May 2022
Cardano Wallet Platform

- Launched secure Node.js and React crypto wallet platform, successfully onboarding 7K+ users within Telegram ecosystem
- Delivered real-time UX for 3K+ concurrent users with Firestore data layer, achieving wallet sync latency of <300ms
- Migrated backend from self-hosted nodes to scalable blockchain APIs, increasing uptime to 99.9% and cutting latency 60%
- Engineered SSL-secured web layer for transaction signing, overcoming Telegram limitations while preserving user experience

Projects

Distributed KV Database

Java, Spring Boot, Docker, AWS EC2

- Built distributed KV store with Leader-Follower/Leaderless architectures, configurable W/R quorums, 5-node replication

Distributed Ski Tracker

Java, Spring Boot, AWS, RabbitMQ, DynamoDB

- Built Java Spring Boot microservices processing 8K+ events/second with RabbitMQ, distributed caching, AWS auto-scaling

InterviewAce

React, GraphQL, Neo4j, Docker, OpenAI Whisper

- Developed React/GraphQL interview practice platform with LLM integration, Docker containers, and Neo4j semantic modeling

Astronoma - 3D Universe Explorer

React, Three.js, FastAPI, Llama 4 API

- Developed React/Three.js space education platform with Llama 4 API integration, real-time narration, voice-guided navigation

Technical Skills

Languages: TypeScript/JavaScript, Java, C++, Python, SQL
Front End: React, Node.js, HTML/CSS, Three.js, GraphQL
Back End/Services: Spring Boot, FastAPI, Microservices, gRPC, GraphQL APIs, Redis, Kafka
Platform/DevOps: Docker, Kubernetes, AWS (EC2, Lambda, ECS, CloudWatch), Terraform, Git, Linux
Databases: PostgreSQL, DynamoDB, MongoDB, Elasticsearch, Neo4j
ML/AI: PyTorch, TensorFlow, scikit-learn, pandas, NumPy, MLflow

Certifications & Leadership

Certifications: [AWS Cloud Practitioner Foundations](#) (2024), [Adobe Commerce Developer Expert](#) (2024), [Azure AI Engineer](#) (2021)

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