

Abiel Yemane

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EDUCATION

Rochester Institute of Technology

Rochester, NY

Bachelor of Software Engineering — Minor Communications

May 2025

- Relevant Coursework: Web Engineering, Machine Learning, Software Architecture, Enterprise Software Engineering, Algorithms and Data Structures, Software Engineering, Process and Project Management
- Major GPA: 3.33

EXPERIENCE

Full Stack Engineering Intern

May 2024 – July 2024

Wabtec

Fort Worth, TX

- Fine-tuned an LLM with PyTorch on inspection reports and trained gradient-boosted classifiers on telemetry with scikit-learn, benchmarking 4 approaches to select the best model per modality
- Built a React/TypeScript triage dashboard with model confidence scores and one-click label correction, cutting review time per ticket from 6 to 2 minutes and feeding 3.2K corrected labels back into retraining
- Cut 50K-log table render time from 4.1s to 380ms with server-side pagination and virtualized rows, making full-history search practical for 12 reliability engineers who had previously filtered Excel exports by hand
- Developed Python/FastAPI APIs to serve model inference at p95 under 250ms and 200+ requests/minute

Backend Engineer Intern

September 2023 – December 2023

Wabtec

Rochester, NY

- Designed and shipped 8 REST endpoints in Java/Spring Boot for asset and work-order data with pagination, filtering, and versioned contracts, cutting payload size from 1.4MB to 90KB
- Optimized 6 slow PostgreSQL queries with composite indexes and by eliminating N+1 JPA/Hibernate calls, dropping p95 response time from 1.9s to 210ms on the highest-traffic endpoint
- Moved report generation to a background worker queue with retry and dead-letter handling, taking a 30s blocking request down to a 200ms enqueue and eliminating client timeouts on large jobs
- Raised backend test coverage from 42% to 78% with JUnit unit and integration tests against a Dockerized PostgreSQL test database, catching 5 regressions pre-merge

Software Engineer Intern

May 2023 – July 2023

Wabtec

Pittsburgh, PA

- Built Python data pipelines to preprocess training datasets, reducing preparation time 45% and processing ~500GB per run from S3
- Automated PyTorch training and evaluation workflows, cutting manual setup from ~4 hours to under 30 minutes per experiment
- Deployed models as Docker containers on Kubernetes (AWS EKS), supporting ~1,200 inference requests per minute at p95 under 200ms
- Tuned batch sizes and pod scheduling to raise GPU utilization from 55% to 78%

PROJECTS

Resumate | *Next.js 14 (TypeScript, Tailwind), FastAPI, Supabase (Auth/Postgres/Storage), Anthropic API*

- Full-stack AI web app that tailors résumés to specific job postings, with upload, JSON parsing, job scoring, tailored generation, structured editing, ATS checks, and PDF/DOCX export

Osprey | *Next.js 15, React 19, Express, TypeScript, PostgreSQL, Claude*

- AI phishing/scam detector classifying URLs and messages as safe, suspicious, or malicious, deployed to production on Vercel, Railway, and Neon

TradeSpace | *NextJS / TypeScript / Express / SupaBase*

- Built a trading analytics platform with Next.js, React, Tailwind CSS, and Supabase, delivering real-time journaling, dashboards, and AI-driven trade insights

TECHNICAL SKILLS

Languages: Python, Java, SQL, HTML5, CSS, JavaScript, TypeScript, C/C++, Selenium, Junit, PyTorch, SciKitLearn

Tools/Frameworks: AWS, Git, Docker, Kubernetes, Spring Boot, ReactJS, PostgreSQL, SupaBase, NextJS, NodeJS

Certifications: AWS Cloud Practioner