

LANG MIN

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EDUCATION

Northeastern University.....**August 2024 -- May 2026**

Khoury College of Computer Science

Master of Science in Computer Science

- Relevant coursework: Machine Learning, Data Mining, Algorithms, AI-assisted Coding, Privacy & Usability

The Ohio State University.....**August 2020 -- May 2024**

College of Engineering

Bachelor of Science in Computer Science and Engineering

- Relevant coursework: Software Engineering, Mobile App Development, Knowledge-based Systems

TECHNICAL SKILLS

- **Languages:** JavaScript/TypeScript, Java, Python
- **Frontend:** React, Next.js, Angular
- **Backend:** FastAPI, REST APIs, authentication, async programming
- **Databases / Platforms:** Supabase, PostgreSQL
- **Developer Tools:** Docker, Git, GitHub Actions, CI/CD, Vercel, Railway

SOFTWARE PROJECTS

Quantum Material Research Tool Development.....**Spring 2026**

- Built a full-stack web app (FastAPI + Next.js 15 / React / TypeScript), transforming a research notebook into a deployable interactive tool with a layered backend separating routers, core compute, and visualization
- Collaborated directly with the Principal Investigator and researchers at Oak Ridge National Laboratory to define product requirements, target users, project scope, and development roadmap
- Implemented an async job system with polling-based REST endpoints, allowing long-running optimization tasks to execute in the background without blocking requests

Full-Stack Trip-Planning Web App.....**Spring 2026**

- Designed and deployed a production trip-planning web app on Vercel + Railway + Supabase with JWT/bcrypt auth, Zod validation, and a documented 10-endpoint REST API
- Engineered a real-time departure planning system using HERE Routing and Transit APIs to calculate optimal "leave-by" times for driving and public transit; implemented background jobs for API quota-aware ETA refresh and Web Push departure alerts
- Wrote 147 tests to 82.5% coverage and built a 4-stage GitHub Actions CI pipeline (lint, ephemeral-Postgres integration tests, coverage, security audit)

CFPB Redaction Quality Evaluation.....**Autumn 2025**

- Built a fault-tolerant LLM pipeline (Python, Gemini 2.5 Flash) that classified 23,703 CFPB complaints (~4.5M words) for residual PII, with checkpoint and rate-limit handling
- Manually built a 460-example validation set and applied precision-based statistical correction to raw flags provided by LLM to estimate true leaks

WORK EXPERIENCE

Xuzhi Technology (Hangzhou).....**Apr 2024 -- Jul 2024**

AI Research Assistant Internship -- Remote

- Preprocessed datasets with text content for language model evaluation, ensuring data quality and consistency across test cases
- Developed a Python-based evaluation pipeline integrating APIs from 9 large language models, automating benchmark execution and performance analysis on language comprehension and reasoning tasks
- Diagnosed and fixed runtime failures in the process, documenting comparative performance metrics