

# Trent Wiles

Available from January-June 2026 in Boston, New York, and San Francisco

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## EDUCATION

### Northeastern University — Khoury College of Computer Sciences

Boston, MA

*Candidate for Bachelor of Science in Computer Science and Criminal Justice*

*August 2023 — Present*

- GPA: 3.7/4.0; Dean's List for all semesters; expected graduation: May 2027
- Clubs & Organizations: ACM Chapter, Content Club, Northeastern Kaleidoscope (Software Developer)
- Relevant Coursework: Object-Oriented Design, Database Design, Advanced Software Development, Software Engineering, Algorithms & Data, Introduction to Math Reasoning, Discrete Math, Network Fundamentals

## TECHNICAL SKILLS

**Languages:** Java, Python, Javascript, TypeScript, HTML/CSS, Go, C, Kotlin

**Frameworks:** Node.js, Flask, ExpressJS, React, WSGI, JUnit, Jest, JQuery

**Databases:** MySQL, PostgreSQL, SQLite, MongoDB, Redis

**Developer Tools:** Git, GitHub, Bash, Linux, Notion, LaTeX

**Infrastructure:** Caddy, Apache2, Nginx, Docker, Netlify, Varnish Cache, DigitalOcean

## PROJECTS

### Trace TL;DR | *Python, Flask, MongoDB*

November 2024

- Aggregated hundreds of teacher evaluations from Northeastern's TRACE platform daily into a MongoDB database
- Designed a high performance platform to drastically speed up data access rates, utilizing an LLM to summarize key positive and negative characteristics of professors
- Analytics reported over 150 unique visitors per day, at peak

### Sit Down And Study | *Javascript, Python, React, Google Gemini*

October 2024

- Created a learning platform, allowing users to solve AI-generated, LeetCode-style coding problems, run their solutions online, and receive instant feedback
- Developed a backend combining Express.js, Judge0, and MongoDB that crafted concept explanations and sample questions to challenge a user's understanding

### RAG Pipeline Metrics | *Python, gRPC, PostgreSQL, Clickhouse, Cassandra, OpenSearch*

June 2025

- Partnered with NetApp Instaclustr to build a RAG pipeline powered by Mistral 7B that benchmarked query latency across Postgres, Cassandra, OpenSearch, and ClickHouse
- Developed Python microservices for ingestion, embedding, and storage in an Agile team environment, using gRPC for scalable and modular communication
- Processed and embedded scientific PDFs at scale using SPECTER2, enabling high-throughput document ingestion with peak performance of 10,000 documents per hour

### Calculus Final | *JavaScript, LaTeX, Python, JQuery*

May 2023

- Devised an interface that allows users to compare the accuracy of intergral approximations to the actual integral calculation
- Implemented JQuery to develop client-side logic, LaTeX to display equations, and calculated integrals via a Python Flask API

### Flag | *PHP, MySQL, Apache Server*

December 2020

- Engineered a robust video sharing platform that allowed users to upload, watch, and rate videos
- Employed MySQL to store video information and user metadata; used PHP to render webpages
- Hosted 240 videos and 100 unique users at peak

## EXPERIENCE

### Guilford Racquet and Swim Club

May 2021 – August 2023

*Junior Tennis Pro*

- Delivered quality tennis coaching to children ages 4-15 and ran private lessons
- Addressed parent questions and concerns; tailored lessons to reflect conversations

## INTERESTS

Cycling, Traveling, Urban Exploration, Tennis, Kayaking