

Trent Wiles

Available from January-June 2026 in Boston, New York, and San Francisco
Email: wiles.t@northeastern.edu
Phone: (617) 706-5565
trentwil.es | github.com/trentwiles | linkedin.com/in/trentwiles

EDUCATION

Northeastern University, Khoury College of Computer Sciences	Boston, MA
<i>B.S. in Computer Science and Criminal Justice</i>	<i>GPA: 3.7/4.0</i>
<i>Aug 2023 - May 2027 (Expected)</i>	
<ul style="list-style-type: none">◦ Dean’s List every semester; ACM Chapter, Content Club◦ Relevant Coursework: Object-Oriented Design, Database Design, Software Engineering, Algorithms & Data, Math Reasoning, Discrete Math	

TECHNICAL SKILLS

Languages: Java, Python, Javascript, TypeScript, HTML/CSS, PHP, C, Kotlin, Rust, Go
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 <i>Python, Flask, MongoDB</i>	November 2024
<ul style="list-style-type: none">◦ 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 <i>Javascript, Python, React, Google Gemini</i>	October 2024
<ul style="list-style-type: none">◦ 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 <i>Python, gRPC, PostgreSQL, Clickhouse, Cassandra, OpenSearch</i>	June 2025
<ul style="list-style-type: none">◦ 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 <i>JavaScript, LaTeX, Python, JQuery</i>	May 2023
<ul style="list-style-type: none">◦ 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 <i>PHP, MySQL, Apache Server</i>	December 2020
<ul style="list-style-type: none">◦ 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
<i>Junior Tennis Pro</i>	
<ul style="list-style-type: none">◦ 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, Video Editing, Tennis, Kayaking
