Trent Wiles

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Education

- **Northeastern University** — Boston, MA
  Candidate for B.S. in Computer Science and Criminal Justice — *August 2023 – April 2027 (expected)*
  - Dean's List for all semesters
  - Clubs & Organizations: ACM Chapter, Content Club

Relevent Coursework

- **CS3500**: Object-Oriented Design
- **CS3200**: Database Design
- **CS3000**: Algorithms & Data
- **CS2500 & CS2510**: Fundamentals of Computer Science 1 & 2
- **MATH1310**: Introduction to Math Reasoning

Technical Skills

- **Languages**: Java, Python, Javascript, PHP, HTML/CSS, Kotlin
- **Databases**: MySQL, SQLite, MongoDB
- **Frameworks**: Node.js, Flask, WSGI, JUnit, Jest, JQuery
- **Server Software**: Caddy, Apache2, Nginx
- **Developer Tools**: VS Code, Bash, Linux, IntelliJ IDEA, Docker, Notion

Projects

- **Trace TL;DR**: Summarizes Northeastern's TRACE professor evaluations using MongoDB and Google's Gemini AI
  - Utilized Beautiful Soup to scrape survey results from TRACE website while authenticated
  - Stored extracted data in MongoDB
  - Created frontend to display data; parsed data from Google's Gemini API
  - Implemented temporary server-side caching with Varnish
- **Sit Down And Study**: Sharpens programming abilities with AI-generated, LeetCode-style questions and code execution
  - Collaborated with teammate at YaleHacks 2024
  - Utilized prompt engineering to generate tailored programming problems with OpenAI's API
  - Developed user-friendly frontend with ReactJS
  - Evaluated code solutions with Judge
- **Node News**: Streamlined newsletter mailer with intuitive user interface and administrator panel
  - Wrote an administrator panel to manage subscribers and send mail in Node.js
  - Leveraged a Javascript library with a remote SMTP server to automate mail delivery
  - Retained subscriber details in a SQLite database
- **BART API**: Unofficial API for Bay Area Rapid Transit
  - Leveraged Beautiful Soup to parse DOM
  - Extracted train times, station information, and alerts
  - Displayed extracted information in JSON format
- **Calculus Final**: Visualize integrals compared with Riemann sums and midpoint rule
  - Implemented a JQuery slider to adjust numerical input
  - Represented mathematical expressions with LaTex
  - Employed Python's integrate library to calculate sums and integrals
  - Displayed data and calculated integrals via a Python Flask-powered API

Interests

- Cycling, traveling, video editing, tennis, kayaking