BRANDON THACH

Skokie, Illinois
(773) 592-6753 - brandonthach17@gmail.com - github.com/BrandonT17

EDUCATION

University of Illinois Chicago **December 2025**
BS in Computer Science (Software Engineering Concentration) - GPA 3.4
- Relevant Courses: Machine Organization, Data Structures & Algorithms, Programming Practicum

Oakton College **December 2023**
Associate in Arts - GPA 3.5
- Relevant Courses*:* Calculus I-II-III, Ordinary Differential Equations, Java Data Structures

SKILLS

- Python, Java, C/C++, HTML, CSS, JavaScript, Rust, SQL
- Git, Java Swing, React.js, GoogleTest Framework, UNIX, Vim/NeoVim
- English, Spanish, Khmer

PROJECTS

myTeacher - Student Information System | *Java, SQL, Java Swing (2025)*
- Developed a desktop application that allows teachers to efficiently manage their courses, students, assignments, and grading effectively using object-oriented programming.
- Used SQL to design a save-feature to allow teachers to access previous across separate program accesses.
- Implemented a report generator to generate CSV files with overviews of student/course information.
- Designed a user-friendly GUI using Java Swing to allow for easier user interaction with the program.

8 Wonders of the World Blog | *HTML, CSS, JavaScript, GitHub Pages, web3form API (2024)*
- Created an interactive blog in HTML that showcases the 8 Wonders of the World in a clean, modern format.
- Implemented a fully-functioning quiz using *web3form*'s API to generate the form
- Used CSS to create a visually-appealing and mobile-friendly layout for the website.
- Used JavaScript to process user answers to the interactive quiz and generate a score.

Warehouse Management | *Java (2022)*
- Built a warehouse management system to track sales, losses, inventory, and ordering information coming in and out of a warehouse.
- Implemented a CSV report generator to allow users to generate a downloadable warehouse overview document.

Text Search Engine | *C++, GoogleTest Framework (2024)*
- Developed a search engine capable of indexing and querying large datasets from user input files.
- Wrote extensive vector and map functions to design an inverted index to map keywords to references.
- Used GoogleTest Framework to build and conduct extensive unit tests to ensure performance and accuracy.

Caesar Cipher | *C++ (2024)*
- Designed a cryptographic program which can encrypt and decrypt text using the Caesar cipher algorithm as well as randomly generated ciphers/decryption keys.
- Used C++ file input/output techniques to support file reading and outputting results to a file.