# LOUIS DOAN

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## EDUCATION

**McMaster University**                                                                     Sept. 2021 – April 2026
Honours Computer Science Co-op (B.A.Sc), Minor in Sociology                                          Hamilton, ON
- **Relevant Coursework**: Data Structures & Algorithms, Computer Architecture, Intro To Software Development, Operating Systems, Computer Networks and Security, Software Testing

## TECHNICAL SKILLS

**Languages**: HTML, CSS, SASS, JavaScript, TypeScript, SQL, Python, Java, C, Haskell, WebAssembly
**Frameworks**: React, Angular, Express, FastAPI, Selenium, Jest, JUnit
**Miscellaneous**: Node.js, Postgres, MongoDB, Supabase, Psycopg, Java Swing, MS Azure, GitHub, MS Office Suite

## EXPERIENCE

**Coding Instructor**                                                                     January 2020 – April 2020
Stemotics                                                                                         Cambridge, ON
- Assisted with teaching children ages 6-14 the basics of programming
- Created a set of easy to follow lesson plans for students that is still being used as of 2024
- Quicky learned about and helped troubleshoot various technologies by reading their documentation
- Setup computers with required software, a shared folder system, and restrictions to prevent unauthorized changes

## PROJECTS

**The Reel Deal** | Angular, SASS, FastAPI, Psycopg, Postgres                                  Jul 2024 – Aug 2024
- Developed a full-stack website where users can browse movie reviews and ratings
- Created complex queries in Postgres to retrieve/calculate specific entries like related reviews, normalized ratings
- Implemented Postgres functions for the backend to utilize and pass data to the frontend

**Premier Ease** | React, SASS, Express, MongoDB, Selenium, Jest                               May 2023 – May 2024
- Developed a full-stack website displaying data about the EPL, including latest scores, fixtures, standings, and news
- Utilized Express and MongoDB to curate and store data fetched from external APIs
- Created a testing suite using Selenium/Jest to test page navigation and filters used on displayed matches/results

**BlabberBox** | React, SASS, Supabase, Selenium, Jest                                         May 2023 – May 2024
- Developed a full-stack chat site that allows users to create accounts, join chat rooms, and exchange messages
- Used a Supabase database to store user accounts and chat room details, ensuring data can be used in real-time
- Implemented features such as profile images, real-time message sending, and ability to send images
- Created a testing suite using Selenium/Jest to test real-time message sending and receiving between users

**Treeter** | React, SASS, Express, MongoDB, Selenium, Jest                                    Jul 2022 – May 2024
- Developed a full-stack Twitter/X clone with user account creation, post/reply functionality, likes, and views
- Utilized Express and MongoDB for adding, storing and retrieving user accounts, posts, and comments
- Implemented features such as profile images, deleting posts, posting images, and chaining replies
- Created a testing suite using Selenium/Jest to test creating and deleting posts and replies

**Rat Maze** | Java, Java Swing                                                                Mar 2024 – Apr 2024
- Implemented an algorithm that uses backtracking to find a path from the start to the end of a user-inputted maze
- Utilized Java Swing to create a GUI for the user to intuitively interact with the algorithm

**McMaster Housing Clone** | React, SASS, Express, MongoDB                                     Jun 2022 – Jul 2023
- Developed a full-stack clone of McMaster's housing website, allowing users to search for and add property listings
- Utilized Express and MongoDB for adding, storing and retrieving properties listings
- Build a user-friendly frontend that displays properties along with filters for tailoring searches

**Shortest Path Analysis** | Python                                                            Mar 2023 – Apr 2023
- Collaborated in a team of three to analyze and compare various shortest path algorithms
- Utilized Python to implement and conduct experiments on the Bellman-Ford, Dijkstra, and A* algorithms
- Wrote a comprehensive report detailing the findings of the experiments on each algorithm