LOUIS DOAN

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EDUCATION

McMaster University   Sept. 2021 – April 2025
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, Express, Selenium, Jest, JUnit
Miscellaneous: Node.js, Git, GitHub, MongoDB, Supabase, 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

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

Connect4Fun | React, SASS, Supabase   Dec 2023 – Dec 2023
- Developed a full-stack site that allows users to create accounts, join matches, and play Connect 4
- Used a Supabase database to store user accounts and match details, ensuring data can be used in real-time
- Implemented features such as real-time board updates and allowing users to leave and come back to the match

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

BattleShip | HTML, CSS, JavaScript, Jest   May 2022 – Aug 2022
- Developed a website allowing users to play Battleship against a CPU opponent
- Created classes in JS that handles game logic such as placing ships and firing at the enemy's board
- Ensured robust functionality by using Jest to test board and game logic