JACKSON SMITH

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EDUCATION

Carleton University - Computer Science Software Engineering Stream B.C.S Honours Sept 2019 - Dec 2023

TECHNICAL SKILLS

Front End| Javascript, NodeJS, ExpressJS, CSS, styled-components
Back End| Java, C++, MongoDB, MySQL
Developer Tools| Git, npm, Agile Methodology, TDD

PROJECTS

Microcurrent Technology (MCT) Device Simulator **Academic Team Project**

Embedded software simulator used in microcurrent biofeedback devices C++ | Qt

- Developed software that simulates operations used by a medical device, including battery level usage, therapy time, power level, electrode contact on/off the patient's skin, and up to 4 therapy options at various frequencies. Additionally, designed software to record and store therapy history.
- Led weekly team meetings using Agile methodology to ensure timely completion of project milestones.
- Primarily responsible for developing the Graphical User Interface (GUI) functionality, conducting use case testing, and creating UML, sequence, and activity diagrams for the embedded software.

IMDB Top Movies Web Scraper **Personal Project**

Web scraper of the top movies ranked by IMDB JavaScript | Node.js | Express.js | MongoDB

- Utilized web scraping techniques to gather data from IMDB's website, extracting the top 1000 movies as determined by user ratings.
- Collected important movie data points such as release year, audience rating, runtime, genre, and ranking through the use of web scraping libraries and tools.
- Created a dynamic data collection and manipulation website for users to easily browse and search through IMDB's top-rated movies based on various criteria.
- Designed and implemented a user-friendly interface for users to find upcoming releases or their favorite movies within IMDB's ranking based on the scraped data.

Tortoise Vs. Hare Simulator **Academic Project**

Race simulator C++

- Implemented a simplified version of the Strategy Design Pattern to simulate a race between two generated characters with different runner movements, using polymorphic behavior.
- Designed the software with a robust architecture, making it scalable to generate other characters with custom behavior specifications, offering users flexibility and customization options.
- Created in a linux type environment using a virtual machine

ADDITIONAL SKILLS

Soft Skills - Adaptable, Flexibility, Collaborative, Communicative, Effective Time-Management
Languages - English (Fluent), French (Intermediate)