

JWALANT PATEL

CANADIAN CITIZEN

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SUMMARY

Enthusiastic, adaptable, and solutions-focused Computer Science student. Offering strengths in technical knowledge, logical thinking, problem-solving, multitasking and strong interpersonal skills. Committed to contributing strong work ethic, and team-oriented collaboration to a professional environment.

EDUCATION

Western University

Sep 2020 - Expected Apr 2025

BSc, Honours Specialization in Computer Science, Upper-Year

- **Dean's List - (May 2021)**
- **Coursework:** Introduction to Computer Organization & Architecture, Applied Logic for Computer Science, Data Structures & Algorithms, Software Tools & Systems Programming, Discrete Structures for Computing, Introduction to Software Engineering, Operating Systems, Analysis of Algorithms, Computer Organization, Statistics, Databases, Computer Networks, Master The Mainframe

PROJECTS

WatchVault – JavaScript, CSS, HTML, EJS, node.js, express.js, AWS S3, MongoDB

Sept 2024 – Oct 2024

- Developed a web application for **50+** users to track movies, anime, and TV shows, utilizing **Node.js**, **Express.js**, and **EJS** for backend and frontend functionality
- Integrated 2 third-party **APIs** to retrieve and store over **100+** preview images in **AWS S3**, enhancing data retrieval speed for user collections, and implemented a recommendation feature displaying top **5** friend-recommended shows
- Utilized **MongoDB** to store **50+** records of user data, watch history, and friend interactions, ensuring seamless scalability and personalized recommendations

TCP/UDP Chatroom – Python

Oct 2024 - Nov 2024

Western University

- Developed a **TCP/UDP** chatroom application in **Python**, enabling real-time messaging for up to **25** users over a local network
- Implemented multithreading to handle concurrent client connections, achieving message delivery rates of up to **100+** messages per minute
- Utilized socket programming to manage **TCP** connections for reliable message delivery and **UDP** for rapid, low-latency broadcasts, enhancing responsiveness by **30%**

Todo List – JavaScript, CSS, HTML, EJS, node.js, express.js

Aug 2024 – Aug 2024

- Developed a full-stack to-do list web application using **JavaScript**, **CSS**, **HTML**, **EJS**, **Node.js**, and **Express.js**, supporting dynamic content rendering and efficient task management
- Utilized a **JSON**-based structure to store and manage up to **100+** tasks, enabling real-time updates, task completion tracking, and persistent storage

Spotify Guest Playlist Merger – C++, Qt creator

Feb 2024 - Apr 2024

Western University

- Developed a collaborative playlist desktop application with **C++** and **Qt Creator**, allowing up to **50+** guests to interact with Spotify's **API** and curate group playlists
- Processed over **100+** songs by implementing **JSON** parsing with the `nlohmann_json` library to manage .csv files and handled Spotify **API** requests using **libcurl** for efficient, low-latency HTTP calls
- Led a team of **4** developers, coordinating efforts for successful design, implementation, and testing phases, achieving a **95%** functionality success rate in user testing

Proof Reading Application – Java, JavaSwing

Sep 2023 - Dec 2023

Western University

- Developed a spell-checking desktop application supporting HTML and text files using **Java** and **JavaSwing**, with a focus on both frontend GUI and backend functionality using object-oriented principles
- Led a **4-member** team in **Agile**-driven unit and performance testing, tracking progress with **Jira**
- Enhanced reliability by automating tests using Java and JUnit in Visual Studio Code, achieving **90%+** test coverage

TECHNICAL SKILLS

Languages: C++, Java, JavaScript, Python, HTML, CSS, Arduino

Databases: MongoDB, MySQL

Operating Systems: Unix, Linux

Tools: AWS S3, jQuery, Node.js, Express.js, React, Git, GitHub, Jira, Confluence