

Jack Denton

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EDUCATION

McGill University

Bachelor of Arts in Computer Science, Minor in Economics

GPA:3.42

Relevant coursework: Algorithms and Data Structures, Software Design Patterns, Computer Systems, Functional Programming, Concurrent Systems, Information Management, High Tech Venture Creation.

Montreal, Quebec

September 2020 – April 2024

EXPERIENCE

Software Engineer Intern

Walmart

May 2023 – Current

Bentonville, AR

- Building a module for the Supply Chain Tracker API that will store data on the unit level for all prescription pharmacy items as required by the Supply Chain Safety Act that comes into place Nov. 2023.
- Working with large-scale systems — 189Mn Rx units processed and shipped annually.
- Technologies involved include Spring Boot, Kafka, CassandraDB (NoSQL), and Google BigQuery.

Software Engineer Intern

Tech For Good

June 2022 – August 2022

Remote

- Designed and implemented a full-stack web application using Next.js, AWS, and Flask to display real-time data for Tech For Good's deployed networks.
- Integrated the MapBox GL JS API to create a visually compelling representation of the data.
- Utilized GitHub for effective version control and project management, ensuring timely completion of tasks and seamless collaboration with team members.

PROJECTS

Golf Social Media App | *Expo (Front-end), Firestore (Back-end)*

- Developed a Golf social media app that supports image sharing, inter-user messaging, and public or private game creation. The cross-platform application is designed to further connect you with people you already know or find new people to play with.
- Integrated Google Maps API to enable location-based features such as finding nearby golf courses and games.
- Utilized Jest to write and maintain unit tests, achieving 90% code coverage and significantly improving the overall code quality and maintainability of the application.

Productivity Enhancing Chrome Extension | *HTML, CSS, JavaScript*

- The extension leverages OpenAI API, DBPedia, and DictionaryAPI.dev to provide users with quick access to answers for highlighted questions and definitions of highlighted words.
- The tool focuses on user experience by displaying the answers in a pop-up next to the highlighted text so the user does not need to leave their current page.
- See demo video here: <https://www.youtube.com/watch?v=VhofORWy8VQt=2s>

CPU Implementation | *Logism*

- Created a functioning CPU using Logism, a digital circuit design and simulation tool. The CPU includes an Arithmetic Logic Unit, RAM, and other key components necessary to execute basic instructions.
- Instructions included reading/writing to/from RAM and performing addition/subtraction.

Languages: Python, Java, OCaml, C, HTML, CSS, JavaScript

Frameworks: Next.js, Expo, SpringBoot, Flask, TailwindCSS, JUnit, Jest

Developer Tools: GitHub, Jira, Kubernetes, Docker

Data: Kafka, Cassandra, MySQL, Firestore, BigQuery