

# Ryan Kelsey

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## Qualifications

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- Proficient C and Java 8 programmer with experience creating shared libraries and algorithms for the manipulation of data.
- Utilized SQL, JavaScript, C, HTML, and jQuery to design a database website from the ground up.
- Familiar with Python 3, C++, C#.
- Excellent time management and team leadership skills acquired from heavily project based courses.
- Knowledgeable of both Windows and Linux operating systems, and familiar with Mac.

## Education

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### University of Guelph, Computer Engineering ( CO-OP ) | 2019 – present

- Coursework focused on: Software development and integration, OOP, Data Structures, systems analysis, hardware design.

## Projects

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- (C, Arduino) Fully autonomous sumobot, designed and built from the group up utilizing an Arduino with sonar and light detection modules as inputs (2018)
- (Python 3) Games using an GUI such as hangman and blackjack coded from scratch (2018)
- (C, Arduino) Model car rebuilt to accept Bluetooth signal controlled via phone, with basic crash avoidance system using an Arduino, Bluetooth receiver, sonar, and light detection modules all coded from scratch (2019)
- (Java 8) GUI E-store that allows the listing and management of products. (2020)
- (Java 8) Databases with focuses such as storing student information, employer information, etc. Utilizing hashmap searching and storing ensures the fastest runtimes (2020)
- (C) XML to GPX parser. A parser that takes in any valid XML tree and converts it to a valid GPX tree, which then can be read and interpreted by a user. Includes all functionality of any standard GPX document (2021)
- (HTML, JS, C, SQL) Created a web server with GUI and user databases for the storing/manipulation of data. JSON strings were used heavily for this project. (2021)

## Work Experience

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- House Man, Langdon Hall | June 2017 – February 2021 - Managed supplies and organization to ensure a smooth workday for my coworkers. Recognized as hard worker with superb efficiency
- Front Line Clerk, Zehrs | April 2016 – June 2017 - Returned carts and bagged groceries in a fast-paced environment

## Assets

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- Valid Canadian driver's license
- Competitive by nature, I am always striving to be the best version of myself

## Availability

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- Available for a 4 month work term (Jan-April) or an 8 month work term (Jan-August).