

# Lewis Rafuse

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## HIGHLIGHTS OF QUALIFICATIONS

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- 3rd Year Software Engineering student at McMaster University with 8 months of previous co-op experience, willing to learn any stack
- Solid understanding of data structures and algorithms, design patterns, and SDLC demonstrated by internship experience and personal projects
- Passionate and interested in software and technology indicated by participation in hackathons, and conveyed through [personal website](#) 🔗

## SKILLS

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**Languages:** Python, Java, JavaScript, PHP, C, C++, HTML, CSS, Go, SQL

**Tools:** Linux OS, jQuery, MySQL, Git, LaTeX, Bootstrap

## EDUCATION

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**B.Eng., Software Engineering and Management, CO-OP** **2022**

McMaster University, Hamilton ON

- Dean's Honour List (2017-2019)
- Invited to the Golden Key Society for achieving a GPA in the top 15% of Software Engineering at McMaster
- Recipient of McMaster Honour Award (\$1000) for a 93% admission average

### Relevant Courses:

- Principles of Programming
- Data Structures and Algorithms
- Databases
- Software Requirements and Security

## WORK EXPERIENCE

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**Web Application Developer** **Jan 2019-present**  
McMaster University, Hamilton ON

- Integrated a steel process model (**C++**) into the McMaster Steel Research Centre website by developing fully responsive front-end (**jQuery, JavaScript, HTML, CSS**) and efficient back end (**PHP**)
- Decreased purchase entry time by 200% by creating custom form-filling Firefox extension (**Firefox extension API**)
- Added website admin features by restructuring user database table (**MySQL**)

**Code Camp Instructor** **May-Aug 2018**  
McMaster University, Hamilton ON

- Worked in a team of two to teach fundamental coding concepts in over 100 presentations using leadership, communication and collaboration skills

## PROJECTS

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**Sudoku Solver Visualization** 🔗 [VISUALIZE](#) 🔗 [REPO](#)  
**DEC 2019**

- Built a **Javascript** application for visualizing an algorithm used to solve sudoku puzzles
- Implemented backtracking algorithm to create and solve sudoku puzzles, complemented by a **Bootstrap** interface

**Machine Learning Steel Analysis** 🔗 [REPO](#)  
**JAN 2019 – DELTAHACKSV PROJECT**

- Built a **Python** application in a team of 4
- Implemented a logistic regression model to calculate dark and light phase of steel in different electron microscopy images