

# Muhammad Hassan Tariq

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## EDUCATION

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### University of Calgary

*Bachelor of Science in Software Engineering, Minor in Data Science*

Calgary, Canada

*Expected April 2022*

- Clubs: Developer Student Club, Competitive Programming Club, Engineering Leadership Program
- Coursework: Data Structures & Algorithms, Operating Systems, Software Development/Design, Computer Networks, Data Base Management Systems, Embedded Systems

## EXPERIENCE

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### CalgaryHacks2020

*Faculty of Science, University of Calgary*

February 2020

*Calgary, Canada*

- \$4000 prize pool hackathon
- Developed a Calgary themed 8-bit style application with minigames and interactive programs
- Focused on developing the menu and user interface in Processing with the help of Processing libraries such as gifAnimation
- Worked in a team environment and helped integrate everyones code together

### Alberta Collegiate Programming Competition

*Competitive Programming Club, University of Calgary*

November 2019

*Calgary, Canada*

- Competed for a cash prize in this hackathon/programming contest
- Solved various coding challenges using C++

### Schulich Engineering Competition

*Schulich School of Engineering, University of Calgary*

October 2019

*Calgary, Canada*

- Competed with many other teams and achieved second place as a team
- Developed a digital flight booking system in Processing
- Focused on developing the menu, user interface, and creating functions to read the data from an excel file

## PROJECTS

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### Tic-Tac-Toe | *HTML, CSS, JavaScript*

October 2020

- Developed a tic-tac-toe web application using HTML/CSS (Bootstrap4 for styling) and Vanilla JS
- Implemented an Unbeatable AI using the minimax algorithm

### Blog Website | *HTML, CSS, JavaScript, Node, Express, MongoDB*

September 2020 – Present

- Developing a full-stack web application using HTML/CSS and JavaScript(Node, Express) with MongoDB as the database

### Student Course Registration App | *Java, Spring, SQL, Git*

March 2020 – April 2020

- Developed a full-stack Java application using the spring framework and SQL database
- Explored many practical concepts including object-oriented design and development, client- server architecture, multithreading, JDBC, GUI, and Git version control
- Focused on developing the client-server architectures and the back end of the app as well as managing the system using the Java MVC layout

## TECHNICAL SKILLS

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**Languages:** Java, C/C++, JavaScript, HTML/CSS, SQL

**Frameworks:** React.js, Node.js, Express.js, Spring, JUnit

**Developer Tools:** Git, VS Code, Atom, Eclipse

## SCHOLARSHIPS & AWARDS

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**2019:** Jason Lang Scholarship, Calgary Co-op Scholarship Award

**2018:** SSE Bursary for Engineering Students, Alberta Rutherford Scholarship, Calgary Co-op Scholarship Award