


# Bassel Rezkalla

Python | C | Java | C++ | Node.js | Bash  
HTML5 | CSS3 | JavaScript | SQL | Git

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 /BasselR

 /bassel-rezkalla

## Skills

- Excellent back-end developer – strong with data structures and algorithms through competitive programming
- Very fast learner, focused and motivated to grow by overcoming challenges in personal projects
- Skilled leader and team player with strong communication skills - practiced through teaching university students

## Work Experience

### Teaching Assistant

McMaster University

May 2020 – Present

Hamilton, ON

Ran semi-weekly tutorials for COMPSCI 1MD3, teaching Python 3, SQL, REST APIs and more. Managed Piazza forum to answer over 200 students' questions.

### IT Systems Administrator

Lake Street Pharmacy

May 2019 – August 2019

St. Catharines, ON

Worked with pharmacists to set up and maintain company hardware and software, as well as developing scripts to automate tasks and boost efficiency.

## Major Projects

### Blackjack.io

**OOP** | Javascript, Node.js, Express.js, Socket.io

An online 2-player twist on the classic Blackjack (21) game using Socket.io and Express.js. Integrated with a MongoDB Atlas database to maintain a lifetime high-score leaderboard.

### MIDI Visualizer

**WebGL Graphics, OOP** | REST APIs, Async JS, File Processing

A MIDI visualizer using HTML5's Canvas and JS to create animations from MIDI files. Uses JS Fetch with async/await to poll REST APIs for file conversion.

### Reddit.Web

**Graph Theory** | Java, JSON, Big Data Processing

A web graphing tool with HTML5 Canvas for visualizing connections between subreddits. Uses a Java Maven back-end and graph theory algorithms to generate visualizable data.

## Education

### Software Engineering (B. Eng)

McMaster University | September 2018 – Present

Beginning my third year of Software Engineering at McMaster in September 2020. Class of 2022.

### Secondary Education

Eden High School, St. Catharines, ON | September 2013 – June 2017

Graduated with a 96% average, 4-year honour roll recipient. Received subject award (top of class) in Physics and French.