

# Jafer Haider

Computer Science and Business Administration | Canadian Citizen, USA Resident

jafer.ca  
github.com/itsjafer  
linkedin.com/in/jaferhaider  
jafer.haider@edu.uwaterloo.ca

## Work Experience

BMO Capital Markets  
Software Developer Analyst

Winter 2018  
Toronto, Ontario, Canada

- Liaised with fixed-income traders to effectively deliver C# WPF applications with request/response RabbitMQ backend
- Used ASP.NET, Oracle SQL to develop web apps to manage database permissions and internal treasury auction bids
- Worked with publish/subscribe backend to deliver a smooth bulk trade entry screen using a FIX protocol adaptor
- Connected Angular2 frontend with a Mongo backend to accurately measure and assess risk limits on US trading desks

Camis Inc.  
DevOps Engineer

Summer 2017  
Guelph, Ontario, Canada

- Created a dynamic web dashboard with Node.js and jQuery used to monitor and update build-deployment processes
- Implemented a company-wide source control branching strategy involving migration from TFS to Git
- Facilitated the implementation of Puppet to monitor client machines with restricted bandwidth limits
- Worked in an Agile development environment utilizing Scrum development methodology with various Atlassian tools

## Technical Experience

Experience working with C++, C#, JavaScript, React, Node.js, jQuery, ASP.NET MVC, XAML, Racket, Python, Java  
Tools and Technologies: SVN, Git, TFS, MongoDB, SQL Server, Oracle, Linux, PowerShell, Socket.io, Express

WLP4/C++ Compiler

Summer 2018

Assembler, Parser, Type-checker, and Code Generator of a C++ subset called WLP4 written in C++

- Implemented a MIPS assembler that converts any MIPS program to binary machine code
- Wrote a lexical scanner and parser for all WLP4 programs to allow for type-checking using context-free grammar
- Programmed complete code generation from WLP4 to MIPS assembly language allowing full compilation of WLP4

Sorcery

<https://github.com/itsjafer/sorcery-OOP>

Fall 2017

Object-oriented implementation of card game similar to Magic the Gathering and Hearthstone

- Used C++ MVC pattern to facilitate effective groupwork and delegation of tasks alongside low coupling
- Implemented Subject-observer pattern wherein the gameboard broadcasted all moves to graphical interfaces
- Effectively managed project by creating UML design beforehand and utilizing effective git branching workflows

web-msngr

<https://github.com/itsjafer/web-msngr>

Fall 2017

Real-time personal messaging web application created using the MEAN stack

- Connected Node.js backend with the Express framework to create a REST API for an Angular frontend
- Used MongoDB NoSQL database to efficiently store and retrieve information about users, chats, and messages
- Implemented Socket.io to facilitate real time message retrieval and broadcasting for connected users

## Education

Honours Bachelor of **Business Administration (BBA)**, Concentration in **Finance** - Wilfrid Laurier University, 2021

Honours Bachelor of **Computer Science (BCS)**, Concentration in **Software Engineering**- University of Waterloo, 2021

## Miscellaneous Interests

Shawarma enthusiast; Boys' soccer coach; Rocket League, FIFA, Fortnite; avid fan of The Office, Black Mirror, The Twilight Zone, Game of Thrones; party board games like Coup, The Resistance, Exploding Kittens