

# Youssef Rizkalla

COMPUTER SCIENCE • MCMaster UNIVERSITY

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## Skills

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**Languages** C# // TypeScript // JavaScript // C++ // Python // Java // Dart // Haskell // Elm  
**Frameworks** ASP.NET Core // Angular // React // GatsbyJS // Flutter // WPF // Windows Forms  
**Other** Git // Azure // SQL // GraphQL // Firebase // Unreal Engine 4

## Professional Experience

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### Full-Stack Web Developer

ALLOODO

Waterloo, ON

May 2019 - August 2019

- Single-handedly developed alloodo.ca, a web application allowing users to rent games to or from nearby users
- Built a JWT protected RESTful API using ASP.NET Core and Entity Framework with a code-first approach
- Employed modular design patterns to develop a maintainable and testable front-end app using Angular 8 and TypeScript
- Utilized Stripe API to securely accept payments and route payouts to different users
- Integrated Google Maps API to create a user-friendly experience by allowing users to easily find the closest renters by distance
- Deployed API and web app to Azure using a CI/CD pipeline integrated with Github

### Android Developer

FATHER MICHAEL GOETZ SECONDARY SCHOOL

Mississauga, ON

May 2018 - July 2018

- Developed a mobile app using Xamarin and C# to assist students in managing their school life
- Wrote a Windows Form program using C# to create and maintain a graph database of the school, mapping rooms in the school's building and connecting them with paths
- Integrated database into the mobile app and built a multi-floor navigation system using a modified path-finding algorithm
- Mapped Wi-Fi access points to rooms in the school's building, allowing the app to automatically detect the user's location and update it in real-time

## Personal Projects

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### Wild Tiger Thai

[github.com/JohnWinter13/wild-tiger](https://github.com/JohnWinter13/wild-tiger)

- Developed a restaurant web app using GatsbyJS and React with a focus on responsiveness
- Utilized GraphQL to query JSON data, allowing restaurant owners to easily modify menu items and images
- Implemented service workers to allow offline and progressive web app functionality

### Fit Together

[devpost.com/software/fit\\_together](https://devpost.com/software/fit_together)

- Developed a cross-platform mobile app using Flutter to help people organize fitness events and find workout partners
- Integrated Google Firebase to setup user authentication and allow users to host and view fitness events
- Awarded Best Use of Google Cloud Platform at DeltaHacks V

### The Perpetuator

[github.com/JohnWinter13/Ninja](https://github.com/JohnWinter13/Ninja)

- Developed a 3D / 2D perspective shift game in Unreal Engine 4.17
- Implemented inventory, shop, movement and combat systems using Unreal Blueprints
- Placed 1st for the best 3D game category at Dufferin Peel's 2017 Game Design Competition

### Contest Programming

[github.com/JohnWinter13/CPLibrary](https://github.com/JohnWinter13/CPLibrary)

- Showcases a collection of contest solutions on online judges using C++, C# and Java
- Implemented algorithms and data structures pertaining to topics such as graph theory and dynamic programming

## Education

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### B.A.Sc in Computer Science

McMaster University, GPA 10.9 / 12.0

Hamilton, ON

2018 - Exp. 2022

- Dean's Honour List Member
- Received an invitation to the Golden Key International Honour Society, recognized as being in the top 15% of students across all majors and disciplines in 9 countries