

# Marcus Chok

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## SKILLS

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**Languages:** TypeScript, JavaScript (ES6+), C#, Java, C, Python, HTML, CSS  
**Frameworks and Libraries:** React, Redux, Next.js, Angular, Express, Node.js, ASP.NET Core, Spring Boot  
**Tools and Technologies:** Git, MongoDB, MySQL, PostgreSQL, Heroku

## PROJECTS

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**Listen and Go** 🔗 Apr 2021 – May 2021

C#, TypeScript, ASP.NET Core, Angular, Angular Material, PostgreSQL

- Increased accessibility of audio player using **Angular Material** to play remote YouTube playlists and songs
- Developed a **GraphQL API** to query and mutate playlists and songs, decreasing load times by 15%
- Mapped many-to-many relationships with **Entity Framework Core** connected to a **PostgreSQL** database

**Unified Chat** 🔗 Mar 2021 – Apr 2021

Java, TypeScript, Spring Boot, Angular, Bootstrap, MySQL

- Created a real-time chat using WebSocket, modelling message data using **Spring Data JPA** and Hibernate
- Improved security by employing Auth0 and **Spring Security** to authenticate users and validate access tokens

**Expense on Rails** 🔗 Feb 2021 – Mar 2021

TypeScript, Next.js (React), Redux Toolkit, Material-UI, Express, Node.js, MongoDB

- Built a web application with a **RESTful API** to track expenses, transactions, and user account information
- Developed the user interface with **Next.js** and **Material-UI**, applying **Redux** to simplify data processing
- Implemented user authorization using PassportJS and stateless authentication with JSON Web Tokens

**MyAnimeList Manager** 🔗 Jan 2021 – Feb 2021

JavaScript, React, Bootstrap, Express, Node.js

- Created a responsive website to manage MyAnimeList accounts by leveraging **OAuth** and HttpOnly cookies
- Modelled a search engine using the Jikan API to scrape results, parsing data from 200+ models per second

**Mask Monitor** 🔗 Jan 2021

Python, Flask, Bootstrap

- Spearheaded the usage of **Git** on a four-member team to increase throughput by 20% for QHacks 2021
- Connected OpenCV webcam footage to a mask detection model, displaying results using Jinja templates

## EXPERIENCE

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**City of Markham** Markham, ON

Assistant Badminton Coach Apr 2018 – Jun 2018

- Increased students' overall game scores by 20% and win-rate by 10% over the course of three months
- Assisted in running drills and instructing 30+ children from ages 8- to 14-years old over two-hour sessions

## EDUCATION

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**University of Waterloo**

Candidate for Bachelor of Computer Science Sep 2020 – Present

- Term Distinction, Fall 2020 & Winter 2021 (3.96 GPA, 94.40% CAV)