# **Marcus Chok**

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#### **SKILLS**

Languages: TypeScript, JavaScript (ES6+), C#, C++, HTML, CSS/SCSS

**Frameworks and Libraries:** React, Redux, ASP.NET Core, Next.js, Express, Node.js, Angular, Spring Boot **Tools and Technologies:** Git, Terraform, Google Cloud Platform, Docker, Tekton, SQL Server, MySQL

#### **EXPERIENCE**

## Ford Motor Company of Canada, Limited (Ford Pro)

Oakville, ON

Software Engineer Intern

May 2022 - August 2022

- Prototyped a custom blog using React and TypeScript that adheres to WCAG 2.0 Level AA standards
- Contributed 3 components to company-wide library and wrote tests in Jest to reach 100% test coverage
- Built a micro-frontend with webpack to support parallel development and reduce bundle sizes across modules
- Leveraged Ghost CMS to create a REST API connected to MySQL, modifying Ember.js code to fit use cases
- Employed Terraform to provision infrastructure on GCP, using Cloud Run to deploy Docker images
- Created a CI/CD pipeline with Tekton to automate testing/deployment, decreasing throughput time by 60%
- Integrated pipeline with static analysis and security scanning tools, eliminating 90% of vulnerabilities
- Diagnosed a critical routing defect in production website, saving thousands of dollars in potential costs

#### TS Analytics Canada Ltd. (TRIYO)

Toronto, ON

Full Stack Developer

Sep 2021 – Dec 2021

- Implemented dynamic dashboard widgets using React and Redux to display user-customized content
- Designed API endpoints and web services using ASP.NET to compile data from multiple tables for display
- Optimized LINQ queries to a cloud-based SQL Server instance to decrease potential latency by 66%
- Refactored HTTP request services to simplify configuration, eliminating 10+ instances of code duplication
- Spearheaded improvements to cross-team collaboration, reducing bugs reported between sprints by 31%

# **PROJECTS**

Listen and Go 🔗

Apr 2021 – May 2021

- Architected an accessible audio player using Angular Material to play remote YouTube playlists and songs
- Migrated existing REST API to GraphQL, optimizing data throughput and decreasing loading times by 15%
- Designed a normalized PostgreSQL database using Entity Framework Core to eliminate data repetition
- Automated HTTP requests to the YouTube API and used .NET Core Identity to prevent unauthorized calls

# Expense on Rails 🥜

Feb 2021 – Mar 2021

- Developed a sortable user interface with Next.js and Material-UI to visualize user expenses and transactions
- Refactored state management logic with Redux to reduce the number of database gueries by 50%
- Built a RESTful API with Express to allow users to input, update, and delete data from a MongoDB database
- Implemented authorization using Passport, encrypting data with JSON Web Tokens to ensure secure transfer

## **EDUCATION**

#### **University of Waterloo**

Candidate for Bachelor of Computer Science

Sep 2020 - Present

Term Distinction: Fall 2020, Winter 2021, Spring 2021, Winter 2022 (GPA: 3.94, CAV: 91.75%)