

Marcus Chok

m2chok@uwaterloo.ca ♦ github.com/MarcusChok110 ♦ linkedin.com/in/marcus-chok

SKILLS

Languages: TypeScript, JavaScript, C#, C++, Java, 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**
- 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%**
- Enhanced pipeline security with Checkmarx, SonarQube, and Fossa, **eliminating 90% of vulnerabilities**

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 backend web services using ASP.NET to compile data from multiple tables
- 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 cross-team collaboration initiatives, **reducing bugs reported between sprints by 31%**

PROJECTS

Listen and Go  Apr 2021 – May 2021

- Engineered 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%**
- Automated HTTP requests to the YouTube API and used .NET Core Identity to prevent unauthorized calls

Unified Chat  Mar 2021 – Apr 2021

- Created a real-time chat using WebSocket, modelling message data using Spring Data JPA and Hibernate
- Divided features into separate Angular modules to improve maintainability and **increase performance by 5%**
- Improved security by employing Auth0 and Spring Security to authenticate users and validate access tokens

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 queries by 50%**
- Built a RESTful API with Express to allow users to input, update, and delete data from a MongoDB database

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%)