Marcus Chok

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SKILLS

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

Frameworks and Libraries: React, Redux, ASP.NET Core, Next.js, Express, Node.js, Angular, Spring Boot

Tools and Technologies: Git, SQL Server, MySQL, PostgreSQL, MongoDB, Heroku

EXPERIENCE

TRIYO (TS Analytics Canada Ltd.)

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 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

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 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

MyAnimeList Manager &

Jan 2021 – Feb 2021

- Created a mobile-friendly website using React and Bootstrap to manage user MyAnimeList accounts
- Leveraged Jikan API to implement search functionality, displaying and parsing 200+ data points per second
- Engineered an API backend using Node is and Express to securely authenticate users using OAuth 2.0

EDUCATION

University of Waterloo

Candidate for Bachelor of Computer Science

Sep 2020 - Present

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