Ryan How

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Skills

Languages: Java, Javascript, Go, SQL
Web Technologies: Vue.js, Node.js, PHP, HTML5, CSS3
Databases: MongoDB, MySQL, PostgreSQL, phpMyAdmin

Experience

Software Engineering Intern
EMAILGISTICS

Mississauga, Ontario
Sept. 2019 - Dec. 2019

- Developed a Microsoft Outlook add-in allowing authenticated users to set their availability in different shared mailboxes, view, add, edit and delete comments on conversation threads and archive messages
- Created RESTful API endpoints to perform CRUD operations on customer database indexes improving query performance by 150%
- Implemented new mail flow logic to toggle incoming messages depending on availability and maximum received messages settings
- Reduced web security vulnerability for all services by incorporating CSRF prevention middleware

Software Engineering Intern
BOSS INSIGHTS

Toronto, Ontario
Jan. 2019 - May 2019

- Redesigned input configuration files used in a data aggregation system to improve the time to add new API integrations by 200%
- Refactored entire codebase to enable the addition of XML response-based APIs introducing 50+ new integrations
- Created unique authorization header handling allowing authenticated API requests with OAuth 1.0 and OAuth 2.0
- Automated the creation of API rate-limiting configuration files used with Cuttle HTTP forward proxy

IT Operations Analyst
LOBLAW COMPANIES LIMITED

Brampton, Ontario
May 2018 - Aug. 2018

- Implemented an enterprise standard for documenting SSL certificates to enforce standardization and ease of management
- Provided an end-to-end view of data transfer through network systems by constructing flow models leveraging Microsoft Visio

SQL Developer
PRGX

Mississauga, Ontario
Jun. 2017 - Aug. 2017

- Developed complex SQL scripts to cleanse 750,000+ rows of raw data aggregated from multiple sources
- Created primary objects such as views and indexes based on logical design models

Projects

Productivity Please
NODE.JS, VUE.JS, BOOTSTRAP, MONGODB

Feb. 2020 - Current

- Developed a Vue web app to keep track of outstanding tasks and upcoming deadlines as well as display motivational quotes

Ball Stats
PHP, HTML, BOOTSTRAP, MYSQL, PHPMYADMIN

Jul. 2019 - Aug. 2019

- Built a PHP web app that interacts with a MySQL database managed on phpMyAdmin
- Developed complex SQL queries to allow for customizable features including creating your own team and adding games

Education

University of Waterloo
3A MANAGEMENT ENGINEERING

Waterloo, Ontario
Sept. 2017 - Apr. 2022

- Dean's Honors List: 3.85 GPA, Ranked 5th in class
- Relevant Courses: Algorithms and Data Structures, Database Systems, Probability & Statistics, Optimization