

Ryan How

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Skills

Languages: Java, Javascript / Typescript, Golang, SQL
Web Technologies: React / Redux, Angular, Vue.js, Spring Boot, Node.js, HTML, CSS
Tools: MongoDB, MySQL, PostgreSQL, Redis, Docker, Jest, Enzyme

Experience

Software Engineering Intern

MINIMAX LABS

London, England

May 2020 - Aug. 2020

- Reduced application build time by **90%** by refactoring seven client-side applications into **one configurable application**
- Architected and developed an entire new admin data hub enabling extensive data manipulation and visualization using **Angular**, **Spring Boot** and **MongoDB**
- Improved web application load speeds by over **25%** by implementing client-side caching and code-splitting

Software Engineering Intern

EMAILGISTICS

Mississauga, Ontario

Sept. 2019 - Dec. 2019

- Developed a Microsoft Outlook add-in enabling authenticated users to alter mail flow, comment on conversation threads and archive messages using **Vue.js**, **Golang** and **MongoDB**
- Improved database query performance by **150%** by building **RESTful API** endpoints to manage customer database indexes
- Reduced web security vulnerability for all services by incorporating **CSRF** prevention middleware
- Introduced several key features by implementing new complex mail flow logic

Software Engineering Intern

BOSS INSIGHTS

Toronto, Ontario

Jan. 2019 - May 2019

- Reduced the time to add API integrations by **50%** by designing and developing configuration files used in a **data aggregation system**
- Introduced over **50 new integrations** by refactoring the codebase to enable integrations with XML response-based APIs
- Created custom 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

Projects

FreeTalk

May 2020

SPRING BOOT, ANGULAR, MONGODB

- Developed a Twitter inspired **Angular** web application where users can speak their mind anonymously
- Implemented **MVC** design patterns in **Spring Boot** to allow for seamless application flow between **RESTful API** endpoints, database entities and an **Angular** user interface

Keeping Up With COVID-19

Apr. 2020

ANGULAR, GOOGLE MAPS API, CHART.JS

- Built an **Angular** web application to display up-to-date statistics on worldwide or user specified country COVID-19 cases

Productivity Please

Feb. 2020

NODE.JS, VUE.JS, BOOTSTRAP, MONGODB

- Developed a **MEVN stack** web application to keep track of outstanding tasks and upcoming deadlines as well as display motivational quotes and the current weather forecast

Education

University of Waterloo

Waterloo, Ontario

3B MANAGEMENT ENGINEERING

Sept. 2017 - Apr. 2022

- Dean's Honors List: **4.0 GPA**, Ranked **3rd** in class
- Relevant Courses: Algorithms and Data Structures, Database Systems, Principles of Software Engineering, Data Warehousing & Mining, Human-Computer Interaction