

Selina Li

University of Waterloo / Bachelor's of Computer Engineering

QUALIFICATIONS

Languages : Java, C#, C++, SQL, TypeScript, JavaScript, HTML, CSS, Python, XSLT
Technologies : ASP.NET, Spring Boot, Angular 8, Angular JS, Redis, MyBatis, Servlet-JSP
Tools : AWS Lambda, AWS S3, Apache Maven, Apache JMeter, Apache Tomcat, Microsoft SQL Server, MySQL, Ubuntu Linux, Git, Talend API Tester, Postman

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WORK EXPERIENCES

Software Developer Co-op | University of Waterloo, Waterloo, ON, Canada

Sep. - Dec. 2020

- Worked full-stack with **ASP.NET Core** and **AngularJS** on the TA application system that helps graduate students at the University of Waterloo apply for teaching assistantships
- Implemented email sending in **.NET API** to notify instructors and applicants about their application and matching status by sending emails to an SMTP (Simple Mail Transfer Protocol) server for delivery
- Designed and developed **RESTful API** endpoints to allow users to create, retrieve, update and delete (CRUD) space information of the Mechanical & Mechatronics Engineering owned rooms and buildings
- Developed an **AngularJS** directive that creates a model to store arrays of checked objects from several checkboxes without additional code in the JavaScript controller

Software Developer Co-op | Dealer-FX, Markham, ON, Canada

Jan. - Apr. 2020

- Developed **RESTful API** endpoints with **ASP.NET Core** in C# for web applications that provide integrated service retention and service drive sales tools to both dealers and OEMs
- Built **AWS Lambda** function with C# to process Amazon SQS (Simple Queue Service) message events and redirect them to VPC-specific (Virtual Private Cloud) lambdas
- Developed a webcam **Angular 8** component, which allows users to capture photos, and automatically update the corresponding image URLs of other components by two-way data bindings
- Investigated and verified SQL Server **stored procedures** that optimized the performance by using temporary tables to reduce data access frequency with permanent tables

Backend Developer Internship | XYebank, Chengdu, Sichuan, China

Jun. - Aug. 2019

- Programmed **RESTful API** endpoints with **SpringBoot** in Java for a Debtor Management System web application to help bank staffs manage debtor's accounts and loan information
- Load tested APIs using **Apache JMeter** and implemented **Redis** in database query results caching to decrease data access latency and ease the load off the relational database
- Enabled **single sign-on (SSO)** to allow users to login in to an application with a single set of credentials and are automatically signed into multiple applications without re-entering authentication factors

PERSONAL PROJECT

Log-in API | Spring Boot, Redis, MyBatis, MySQL

- Developed a log-in API in **Spring Boot** with **Redis**, that will lock out accounts for 15 minutes after 5 incorrect password attempts in order to block brute-force attacks
- Utilized **MyBatis Generator (MBG)** to introspect database tables and generate artifacts that can be used to access the tables in order to lessen the nuisance of setting up objects and configuration files