

Qian Li

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Skills

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

Work Experiences

Software Developer Co-op

September 2020 – December 2020

University of Waterloo | C#, ASP.NET, AngularJS, Microsoft SQL Server

Waterloo, ON, Canada

- 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

January 2020 – April 2020

Dealer-FX | C#, ASP.NET, Microsoft SQL Server, Angular 8, AWS Lambda

Markham, ON, Canada

- 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

Backend Developer Internship

June 2019 – August 2019

Xyebank | Java, SpringBoot, MySQL, Redis, Servlet-JSP

Chengdu, Sichuan, China

- 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 into 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 | Java, 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

Education

University of Waterloo

September 2019 – Present

Bachelor's of Applied Science, Computer Engineering

Waterloo, ON, Canada