Lichen Ma

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Skills

Technologies / Spring, NodeJS, Express, AngularJS, React, Android Studio, Git Languages / Java, JavaScript (ES6), C, C++, Python, SQL, Kotlin, HTML5, CSS3

Experience

Incoming Back-End Developer Intersect

Sept - Dec 2019

Toronto, ON

Full-Stack Developer HubHead

Jan - Apr 2019

Java, Spring, AngularJS, PostgreSQL, Groovy, Git, MVEL

Markham, ON

- o Developed the full-stack implementation for a duplicate workflow detection service for a cloud based multi-user application, eliminating back-end errors resulting from user input overlap
- o Added client-side and server-side data validations for an Asset Management web service using MVEL and SQL, ensuring compliance with SAP masterdata standards
- Designed a SQL optimization job using Obsidian Job Scheduler, periodically removing unused database entries and reducing process list load times by 20%

Wireless LAN Engineer Extreme Networks

Apr - Aug 2018

JavaScript, Postman, Newman, Bash, SwaggerIO

Markham, ON

- Automated REST API regression testing by creating Postman workflows to generate requests and JavaScript Assertions to perform validations, shortening the verification process by 60%
- Managed the verification process for all user profile API endpoints, eliminating back-end vulnerabilities resulting from improper server-side validations

Software Engineer *Toronto Water*

Sept - Dec 2017

Python, NumPy, pandas, Microsoft SQL Server

Toronto, ON

- o Automated the generation of Asset data analytics using Python for data preprocessing and analysis, shortening the asset report generation process by 80%
- Developed and maintained a database of company assets using Microsoft SQL Server, streamlining the data retrieval process and saving the server team 10 hours / week

DevOps Engineer Toronto Water

Jan - Apr 2017

TCP/IP, Routing/Switching, Cisco CLI

Toronto, ON

o Architected a network design including IP addressing and security architecture to provide network access to Power Distribution Units located in the company's datacenter

Projects

Javalon - Spring Web Service Board Game

Java, Spring, AngularJS, H2, Websockets

- o Developed a real-time web service interpretation of the card-based board game "The Resistance: Avalon"
- Designed the full-stack application implementation featuring user authentication, game-rooms, chat-rooms and real-time game synchronization across devices driven by Websockets

Education

Candidate for Bachelor of Applied Science in Computer Engineering University of Waterloo

2016 - 2021