

KRIS LAI

Full Stack Software Engineer

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EXPERIENCE PROGRAMMING

C C++ Python Java

C# Golang Haskell

Scheme

SVN ClearCase Git

WEB DEV

JavaScript | TypeScript

Spring Boot Angular HTML5

RESTful API

PHP

DATABASE

InfluxDb Db2 MongoDb

MySQLdb

METHODOLOGY

Agile (Scrum) OOP

Software Architecture Design

Test Driven Development

Design Thinking DevOps

SDLC

Full Stack Software Engineer | Peak Power Inc | Jul 2020 - Present

- Developing a customer portal web service with RESTful API framework. Frontend developed using Angular10 with Spring Boot. Utilized Python, Java, and PHP as backend services to collect and interact with information from Energy Storage and Building Sensors. Server hosted on AWS and rerouting traffic using Elastic Load Bal-
- Containerizing backend API with Docker, and adding error tracking system Sentry and Datadog.
- Created a multi-threaded driver to process streaming data on Modbus Registers from RTAC using Fieldtalk Library, processing energy storage and meter (Powin, Tesla, SunGrow, etc) data. The driver connects the backend API with the RTAC on multiple physical sites across Canada and US, allowing for remote control.

Software Development Team Lead | IBM = Feb 2019 - Jul 2020

- Led a project to create an API which acted as a standalone service that automates the process of investigating failures within Db2. The software is built on top of Python and Golang, containerized as a RESTFUL service using Docker.
- Managed Db2's functional verification team of 11 developers and QAs, to ensure Db2's transition from development to production stage with minimal errors in all components.

Digital Quality Engineer | RBC # May 2017 - Aug 2017

• Within one month, optimized the online application by minimizing the fields that are required to complete the application and enhanced compatibility with mobile devices on IOS and Android.

Technical QA & Automation UI Developer | RBC # May 2016 - Aug 2016

- Data Generation & Intelligent Masking: Extract production data and generate data using Test Data Manager. Key values pair are intelligently masked before transferring data to test environment.
- Test Automation UI Developer: Developed a Windows Application using C# for automatically generating a structured configuration file. The file is then imported into Robot Framework for comparison between Teradata and local table.

LANGUAGES

English: Native

Cantonese: Native

Mandarin: Working Profi-

ciency

PROJECTS

Matplotlib Contribution | University of Toronto | Jan 2018 - Apr 2018

 In a team of five, submitted different bug fixes and implemented many new features such as Axis Swap, Bullet Graph, and Percentile lines for violin plot to open source project Matplotlib written in Python. Due to our outstanding work, two bug fixes were accepted to the main repository.

EDUCATION

Bachelor of Science (B.Sc.) | University of Toronto = 2013 - 2018

Specialist in Software Engineering