

# KRIS LAI

#### **Full Stack Software Engineer**

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## PROGRAMMING EXPERIENCE

Python Java C C++

C# (Golang) (Haskell

Scheme

Git SVN ClearCase

### **WEB DEV**

JavaScript \

 ${\it Type Script}$ 

AngularJS

**Spring Boot** 

PHP HTML5

RESTful API

### **DATABASE**

Db2 InfluxDb

MongoDb

MySQLdb

## **METHODOLOGY**

Agile (Scrum)

OOP

Software Architecture Design

Test Driven Development

Design Thinking | DevOps

Design Thirking Deve

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 Balancer.
- 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.) – Software Engineering | University of Toronto 2013 – 2018