



KRIS LAI

Full Stack Software Engineer

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PROGRAMMING

Python Java C C++

C# Golang Haskell

Scheme

Git SVN ClearCase

WEB DEV

JavaScript TypeScript

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

SDLC

LANGUAGES

English: Native

Cantonese: Native

Mandarin: Working Proficiency

EXPERIENCE

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

- Lead 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 compatibilities with mobile devices on IOS and Android.
- Sped up the production release by a week for online account open application for mobile testing. As a result, it reduced unnecessary time allocation and increased tasks competition.

Find more of my job experience on LinkedIn!

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