

KRIS LAI

Full Stack Software Engineer

- @ kriskirla@gmail.com
- **J** 6478688606

code for each site through Object-oriented design.

Toronto, Canada

- in laikris
- kriskirla

EXPERIENCE

and Datadog.

kriskirla.github.io

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

• Developing a customer portal web service with RESTful API framework. Frontend

Sensors. Server hosted on AWS and rerouting traffic using Elastic Load Balancer. Created a multi-threaded driver to process streaming data on Modbus Registers

from RTAC, processing energy storage (Powin, Tesla, SunGrow, etc) and meter data across North America. The optimized driver decreased latency by 500% between

sending and receiving data compared to previous workflow and reduced maintenance cost exponentially by managing one source code rather than multiple versions of

developed using Angular with Spring Boot. Utilized Python, Java, and PHP as backend services to collect and interact with information from Energy Storage and Building

PROGRAMMING

C Python Java C++

C# Golang Haskell

Scheme

SVN ClearCase Git

Docker

METHODOLOGY

Agile (Scrum) OOP

Software Architecture Design

Test Driven Development

Design Thinking DevOps

SDLC CI/CD

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

 Pioneered Project ARBIT to create a standalone service that automates the process of investigating failures within Db2. The API is built on top of Python and Golang, containerized as a RESTFUL service using Docker.

Containerizing backend API with Docker, and adding error tracking system Sentry

 Led Db2's functional verification team of 11 developers and QAs, to ensure Db2 transitions from development to production stage with efficiency and minimal errors in every components.

WEB DEV

JavaScript | TypeScript React Angular Node.js

Django Spring Boot

HTML5 PHP

RESTful API

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 intelligently mask the key-value pair before transferring data to test environment.
- Test Automation UI Developer: Developed a Windows Application using C# for automatically generating a structured configuration file, which will automatically feed into Robot Framework for comparison between Teradata and local table.

DATABASE

InfluxDb Db2 MongoDb

MySQLdb **Postgres**

PROJECTS

Algotrading | Personal Interest = Feb 2021 - Present

 Full-stack development using Django and React framework which offers variety of techniques to assist in stock trading. Features includes Stock Forecasting with Machine Learning and Neural Network, VADER Sentiment Analysis, and Portfolio Optimization which process holdings from indices like S&P500 and Nasdaq-100 with Efficient Frontier to adjust weights and create a portfolio given the available fund.

LANGUAGES

English: Native

Cantonese: Native

EDUCATION

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

Computer Science - Specialist in Software Engineering

Mandarin: Working Proficiency