

Willie Yuk Tsun Wong

B.Sc in Computer Science, University of British Columbia

<https://willieytwong.com>
dev@willieytwong.com
+1.778.885.9923

SOFTWARE ENGINEER

TECH STACK

Languages

Java 11
Python
SQL (PL/SQL, MySQL)
C#.NET, Visual Basic
JavaScript

Libraries & Frameworks

Spring Boot
Lombok
Struts 2
JSF & PrimeFaces
Hibernate, EclipseLink
Wiremock
Instancio

DBMS

MySQL
Oracle
MSSQL
Snowflake
Mongo
H2, SQLite

Platform & Infrastructure

Docker, Kubernetes
Vagrant
Kafka (Apache, Confluent)
Solr
Airflow
GitLab, Github
AWS Ecosystem
Azure Ecosystem
OpenShift

PROFESSIONAL EXPERIENCE

Senior Software Engineer

Lululemon Athletica, Vancouver, Canada (June 2020 ~ Present)

- Facilitated and developed ecosystem blueprints for legacy Oracle Service Bus (OSB) to Kafka migration
 - Spring Boot microservices, Kafka consumption, message processing, downstream persistence, automatic error detection and reconciliation
 - Oracle persistence via encrypted Oracle Connection
 - Integration with downstream authenticated SSL SOAP Service
 - Kafka partition optimization based on annual peak loads
 - Automatic Kafka consumer recovery and data loss prevention when data is consumed but downstream service is unavailable for persistence
 - Dockerization and kubernetesization for auto scaling
 - Reduced ramp-up time for similar service by utilizing generic service blueprints
 - Real time monitoring via Prometheus and Grafana integration
- Workday employee data ETL & encrypted storage
 - Spring Boot microservices managed through Apache Airflow
 - Workday SOAP consumption, remapped with AVRO and Kafka & Snowflake persistence, PII field level data encryption
 - Additional ETL and analysis on Azure DataBricks with Python
- Created dev tools to enable generic data transfers between DataBricks and Snowflake

Senior Java Developer

BestBuy Canada, Burnaby, Canada (June 2019 ~ June 2020)

- Migrating legacy Spring applications to Spring Boot 2 microservices
- Solr search optimization and weighing adjustments for more relevant results
- Redesigned and redeveloped Spring Batch processes into independent Spring Boot services
 - Asynchronous partitioning and processing of large product dataset
 - Event based delta updates reduce data update volume
 - REST based service to share data with other microservice in OpenShift cluster

Senior Java Developer – Backend

Ritchie Brothers Auctioneers, Burnaby, Canada (December 2017 ~ June 2019)

- Spring Boot 1 to Spring Boot 2 migrations
- KYC verifications via REST based services (Whitepages, Paysafe, Twilio)
- Decouple development from external dependencies via response mocking
- Kafka message production and consumption for real time updates
- Invented seamless process to re-index Solr, enabling search to be available while new index is being built

Software Developer – Backend

Jostle Corp., Vancouver, Canada (January 2017 ~ December 2017)

- Kubernetes Spring Boot applications to utilize container's raw binary for image processing and Spring Boot application for S3 authentication & uploads
- REST based communication between microservices and monolith to notify status updates on monolith

Software Developer

Hyperwallet (a PayPal service), Vancouver, Canada (May 2015 ~ December 2016)

- Full stack development with EclipseLink, JSF with PrimeFaces as frontend

Analyst Programmer
South China Morning Post Publishers, Hong Kong *(September 2014 ~ April 2015)*

Analyst Programmer
Bank J. Safra Sarasin, Hong Kong *(April 2014 ~ August 2014)*

Application Developer – Business Processes
PCCW-HKT, Hong Kong *(August 2012 ~ March 2014)*

Junior IT Professional (Internship)
Powerex Corp., Vancouver, Canada *(January 2008 ~ September 2008)*

PERSONAL PROJECTS

Cloud VPS

- <https://willieytwong.com> – Spring Boot 2 application

Social Media Image and Video Extractor

- Defunct, source at <https://gitlab.com/willieytwong/igsaver>