

FRANK JIA

I create value by combining technical expertise with business intellect.

SKILLS

- > Backend engineering for **web services** and **data processing**
Knowledge of both microservice and monolithic service design; Experience with Golang, Python, Java, Kotlin, and NodeJS; Proficient with Kubernetes, Docker, GCP, AWS, GraphQL, and ElasticSearch
- > Frontend development for **mobile** and **web**
Experience with languages such as Swift, Kotlin, and Javascript; Understanding of Redux, ReactiveX, and MVVM
- > Machine learning fundamentals with a focus in **natural language processing**
Knowledge of building data processing and training pipelines in Python with Keras and Pytorch

EDUCATION

University of British Columbia, Vancouver Canada — BAsC in Engineering Physics

SEPT 2016 - PRESENT, EXPECTED COMPLETION: MAY 2022

- > 5th year ENPH, an interdisciplinary program that combines engineering with math and physics; Current average: 93%

EXPERIENCE

SAP Concur, Vancouver Canada — Software Engineer

MAY 2019 - DEC 2019 | MAY 2020 - PRESENT

- > Maintained and improved a Java Spring microservice that handles 1M+ live transactions per month
- > Led and accelerated the completion of mobile travel booking workflows for the Concur iOS and Android app
- > Managed feature development and devops pipeline for a backend Golang microservice that serves location data
- > Designed and implemented an automated data loading and replication process with AWS Elasticsearch and Lambda
- > **Key Technologies:** Golang, Java, Swift, Kotlin, GraphQL, AWS, Elasticsearch, Kubernetes, Envoy/Istio, Git

Grow Technologies, Vancouver Canada — Junior Software Engineer

JAN 2018 - APR 2018

- > Helped accelerate backend feature development of a monolithic backend service for the fintech startup
- > Responsible for the design and creation of an ID verification microservice to identify fraud in banking applications
- > **Key Technologies:** Java, Python, GCP, Git

3D Workbench, Vancouver Canada — Owner & Operator

JAN 2016 - JAN 2018

- > Operated an eCommerce retailer for 3D printers on Amazon and eBay, grossing over \$300,000 CDN in total sales
- > Responsible for all business functions, such as shipping logistics, accounting, marketing, and website development

PROJECTS

Fake News Detector — AI To Identify Fake News (Leaders Prize)

JUL 2019 - PRESENT

- > Created machine learning pipeline to predict the truthfulness of a claim for the **Leaders Prize** competition (currently top 5)
- > Text preprocessing using models such as Word2Vec; Model training using the latest research, such as BERT and XLNet
- > **Key Technologies:** Python, Keras, Pytorch

Clerc Technologies — Mobile Checkout for Retailers, Co-Founder

JAN 2019 - SEPT 2019

- > Architected an end-to-end solution to enable shoppers to checkout at participating stores directly with their mobile phones
- > Designed, implemented, and launched a backend service for payment processing using Stripe, a webapp for retailers to manage their products, and iOS/Android apps for consumer use
- > **Key Technologies:** Swift, Ruby, Kotlin, ReactJS, GCP, Firebase