

# Frank Chen

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Website: <https://mybluedog24.github.io/> | Github: <https://github.com/mybluedog24>

## PROFILE

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- Experience in designing **web applications** with varies technologies.
- Highly **independent** and able to **supervise** team members.
- **Quick learner** and **highly adaptable** to rapidly changing requirements.
- **Ambitious**, always striving for excellence and seeking feedback.
- Able to communicate efficiently and professionally.

## SKILLS

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- **Frontend:** Angular, Ionic, HTML, CSS, JavaScript
- **Backend:** Python, PHP, Nodejs
- **Database:** MySQL, Elasticsearch, DynamoDB
- **AWS:** API Gateway, Lambda, RDS, DynamoDB, Amplify, Cognito, CodePipeline, CloudFront, Route 53, EC2, S3

## EXPERIENCE

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### Far East Digital Inc.

Toronto, ON

*Co-founder & Full Stack Engineer*

2017 – Present

- Designed & developed real estate search platforms (web app, iOS and Android) using Ionic **Angular**, AWS Amplify, Cognito, Lambda, API Gateway, DynamoDB, S3.
- Designed & implemented **MLS data RESTful APIs** using Swagger for documentation, Python, PHP, MySQL, AWS EC2, RDS for pulling MLS data hourly, Elasticsearch, AWS Lambda, API Gateway for near real-time searching/aggregating on **millions of MLS data**.
- Developed Ontario schools search platform & **Ontario schools API**. Collected & extracted schools' data from multiple sources, using **chart.js** for schools' **data visualization**.
- Provided digital solutions to real estate agents, helped them attract more potential buyers from digital platforms. Monitored and analyzed their applications health and activities.

### Hummingbird Trading Inc.

Toronto, ON

*Web Developer*

2016-2017

- Implemented an entire e-commerce retail site using the Shopify platform from POS interface to backend infrastructure.
- Designed & developed website & web app for wine trading company using HTML/CSS/JS, Alibaba Cloud for websites, **Angular**, Alibaba Cloud for Content Management System (CMS) **web app**, Python Flask, Alibaba Cloud for backend, Alibaba Cloud for **products data API**.

## EDUCATION

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**University of Toronto**

*Honours Bachelor's Degree*

Toronto, ON

Graduated in 2016

## PROJECTS

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### **Hokaho Toronto Real Estate Search Platform**

Web App, iOS, Android

*Angular, Ionic, Python, PHP, MySQL, Elasticsearch, Swagger, AWS: Amplify, API Gateway, Lambda, RDS, DynamoDB, Cognito, S3, Route 53, CloudFront*

- Hokaho app is a Canadian real estate listing search platform facilitating for sale and for rent properties for the GTA and surrounding Ontario region.
- Designed and developed real estate web app, iOS app & Android app using Ionic Angular for frontend, AWS services for backend and CI/CD.
- Designed and developed a system to pull and process listings data from TREB RETS server continuously.
- Implemented Rest APIs for searching/aggregating on millions of listings data, image processing (Sharp) and URL Shortener.
- Implemented Rest APIs for syncing social media posts to the app, and generate posters to post on multiple social media platforms (YouTube, Twitter & Pinterest).

### **Real Estate Web Design**

Website

*HTML, CSS, JavaScript, PHP, MySQL, Google Chart JS library*

- Designed and developed real estate listing search websites based on clients' requirements.
- Used Google Chart JavaScript library and Google Map API for visualizing Canada census data.

### **Facial Expression Prediction**

Machine Learning

*Python, Machine Learning*

- Used different machine learning tools (Support Vector Machine (SVM), Neural Network (NN), Mixed of Gaussians (MoG), Principal Component Analysis (PCA)) to predict facial expressions on Toronto Faces Dataset.