

## PROFESSIONAL EXPERIENCE

### Segantii Capital Management Limited

*Front Office Developer*

**Hong Kong**

*Jun 2020 -- Present*

- Lead developer for a React app that allows users to quickly and easily create dashboards with AG Grid and Plotly, cutting firm-wide development costs
- Using Flask for REST APIs, Microsoft SQL and MongoDB for data storage, and Redis for caching
- Replaced manual processes and VBA scripts with automated Python scripts, decreasing runtimes, complexities, errors and maintenance efforts
- Cooperated with traders to create backtesting tools, automated reports and strategy researching by leveraging data engineering stacks such as Pandas and Jupyter

### Bank of America

*Quantitative Services Analyst*

**Hong Kong**

*Nov 2018 -- Jun 2020*

- Proposed and implemented a web dashboard using Python, JavaScript and HTML to replace a manual email report that was done 3 times a day, 15 minutes each
- Revamped a product-searching tool from a VBA script to a Python GUI, cutting queries from 10 minutes to less than 10 seconds
- Aggregated activity logs using Pandas which was used for a Tableau dashboard for management to evaluate employee activity
- Created a web page that uses JavaScript to manipulate a SharePoint List that powers a Python rule-based tagging script, helping users centralize and document identified rules and replace a manual tagging process
- Built a prototype React app for querying security details from multiple APIs for detecting data abnormalities

### China Merchants Bank International Securities Limited

*Analyst*

**Hong Kong**

*Jul 2018 -- Oct 2018*

- Responsible for algorithm trading projects that aimed to increase trading volume

### Shenwan Hongyuan (H.K) Limited

*Quantitative Researcher Officer*

**Hong Kong**

*Sep 2017 -- May 2018*

- Developed a basket of Futures intra-day quantitative strategies in Multichart for clients to trade

## PROGRAMMING PROJECTS [GitHub](#)

### [Ensou](#) [GitHub](#)

A React app written in Typescript that plays midi files with Tone.js and visualizes musical notes with PixiJS.

### [HK Portfolio Analysis](#) [GitHub](#)

A React-Python (FastAPI) app that provides portfolio statistics for Hong Kong stocks. Recharts is used for charting, asyncio to speed-up data fetching and Pandas for data processing.

### [Color System Builder](#) [GitHub](#)

A React Redux Firebase app for building WCAG compliant color systems.

### [Petangle](#) [GitHub](#)

A React Redux Firebase app created to collect nutrition tables for cat and dog food. Ag Grid is used to provide an interactive table for users.

## SKILLS & QUALIFICATIONS

<b>Qualifications</b>	Pass in CFA Level 1, Pass in HKSI Type 1
<b>Languages</b>	English, Cantonese, Mandarin, Basic Japanese
<b>Programming</b>	Python, JavaScript/Typescript
<b>Backend</b>	Flask, FastAPI, Microsoft SQL, PostgreSQL, MongoDB, Redis, Firebase
<b>Frontend</b>	React

## EDUCATION

### The University of Hong Kong

*Bachelor of Business and Administration (Accounting and Finance)*

**Hong Kong**

*Sep 2013 -- Jul 2017*