

## PROFESSIONAL EXPERIENCE

### Segantii Capital Management Limited

*Full Stack Developer*

**Hong Kong**

*Jun 2020 -- Present*

- Developer for a React app that allows users to quickly and easily create dashboards with AG Grid and Plotly, cutting firm-wide development costs and time
- Implemented a bookmarking feature with bookmarks persisted with MongoDB, currently being used by most users
- Integrated Microsoft Graph API to allow creating highly customized calendars in the browser while remaining synchronized with Outlook
- Wrote detailed documentation with real use cases for users, reducing user enquiries by 90%
- Detected slow and blocking Microsoft SQL queries with Server Management Studio and improved them by indexing appropriate columns
- Refactored a Redis caching logic and improved cache hits by 20%, reducing daily limited Bloomberg API calls
- Replaced manual processes and Excel/VBA 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

*Python Developer*

**Hong Kong**

*Nov 2018 -- Jun 2020*

- Proposed and implemented a web dashboard using Python, JavaScript and HTML to replace a manual report, saving 45 minutes daily
- Created a web page that allows users to manage tagging rules with JavaScript and SharePoint Lists, powering a Python script that helped tag 99% of trades daily
- Revamped a product-searching tool using an in-house Python GUI library, improving query time by 98%
- Aggregated activity logs using Pandas which was used for a Tableau dashboard for management to evaluate employee activity
- Built a prototype React app for querying security details from multiple APIs for detecting data abnormalities

## 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.

### [Buddy Champ JJ](#) [GitHub](#)

A React app that shows League of Legends champion-pairs win rates. Served with Firebase Hosting and Google Cloud Functions, with data updated by a job hosted in Heroku.

## 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*