

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 create a re-usable calendar component that synchronizes with Outlook automatically, greatly decreasing user development time
- Wrote detailed documentation with real use cases for users, reducing user enquiries by 90%
- Refactored a Redis caching logic and improved cache hits by 20%, reducing daily limited Bloomberg API calls
- Detected slow and blocking Microsoft SQL queries with Server Management Studio and improved them by indexing appropriate columns
- 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 Firebase 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.

[LOL 15 FF](#) [GitHub](#)

A desktop Python app that determines if you should forfeit a game in League of Legends using machine learning. Prediction model hosted in Heroku.

[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

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

EDUCATION

The University of Hong Kong

Bachelor of Business and Administration (Accounting and Finance)

Hong Kong

Sep 2013 -- Jul 2017