Ralph Vincent O., Perez

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https://github.com/pralphv/

PROFESSIONAL EXPERIENCE

Segantii Capital Management Limited   **Hong Kong**
Full Stack Developer   *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   **Hong Kong**
Python Developer   *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. Uses AWS Lambda for an image-to-midi microservice.

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   **Hong Kong**
Bachelor of Business and Administration (Accounting and Finance)   *Sep 2013 -- Jul 2017*