

Tan Zheng Yu Thomas

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EDUCATION

National University of Singapore

School of Computing

Bachelor of Science in Business Analytics (Honors with Distinction) with a Minor in Economics

Aug 2020 – Dec 2023(Projected)

WORK EXPERIENCE

WorldQuant – Quantitative Research Intern

May 2023 – Aug 2023

- Research and development of systemic financial strategies across global markets using various datasets.
- Development of scripts using Python for analysis of datasets and robustness of Alphas generated.
- Creation of C++ modules for code optimization and application of ideas into Alpha generation.

Government of Singapore Investment Corporation (GIC) – Software Engineer Intern

Dec 2022 – May 2023

- Contributed to the development of a Private Markets Data Ecosystem Application's User Interface from scratch using React.js as well as Test-Driven Development and Behavioral-Driven Development methodologies.
- Built and maintained the application's backend using Snowflake Database, AWS Lambdas and Glue Functions, and Restful APIs, ensuring efficient data flow and processing.
- Developed and maintained features of the data ingestion and processing infrastructure, enabling seamless data integration and analysis.
- Implemented end-to-end testing flows for both the Front End and Back End infrastructure using GitHub Actions, Cypress, and SonarQube, for improvement in application stability and reliability.

Tinvio – Data Analyst Intern

May 2022 – Dec 2022

- Led a project on re-vamping the company's current fraud detection engine, involving improvements on the front-end interface as well as setting new metrics and thresholds to detect fraudulent transactions and behaviour on the company platform.
- Performed data-driven analytics through creation of data visualisations and dashboards by performing various query operations on the company database, for both customer-facing as well as internal processes.
- Created data pipelines between the Tinvio's Database with Third-Party Payment Applications using ETL processes, creation of new database tables, ER-diagrams, and database optimization.
- Created an end-to-end invoice parser using Optical Character Recognition technology and Human-in-the-loop framework, including the back-end data pipeline and front-end User Interface.

Media.Monks – Data & Strategic Insights Intern

Jan 2022 – Apr 2022

- Conducted research and extraction of essential data points, deliberately scoped in the context for various projects.
- Strengthen and validated consumer sentiment research and analysis using tools such as Sprinkler, Meltwater and GWI for social media listening and sentiment analysis.

Maritime Port Authority of Singapore – Capability Enabling Intern

May 2021 – Jul 2021

- Conducted research and proposed changes towards current policy implementations and guidelines for grant recipients by re-examining grant guidelines and metrics to ensure that policy objectives were met.
- Developed a data-extraction script using Python and Optical Character Recognition which facilitated the finance teams for automated retrieval of data from over 600 financial statements.
- Created Python scripts which aided in the processing of online forms and documents into cleaned excel tables to create simple and efficient workflows for the internal operations team.

PROJECT / EXPERIENCES

National University of Singapore

EduSkool (Vue.js):

- Created an integrated application which allows students to engage themselves in self-directed learning through online videos and quizzes
- Included a teachers portion which as well allows teachers to track the results and basic statistical analysis of students under their classes
- Leaderboard and badges for a competitive and rewarding learning environment

Jan 2022 – May 2022

Independent Software Development Project (React.js):

- Created a web application which facilitated interactions and friend making in NUS, where users could match each other based on interests and faculty.

Jun 2021 – Aug 2021

TECHNICAL SKILLS

- Frontend: Vue.js, React.js, HTML/CSS/JS
- Database: SQL, Google Firebase, MongoDB
Working experience with Google BigQuery, Vertex AI and Amazon Redshift and Sagemaker
- Data Analytics: Python(Pandas, Numpy, Seaborn, Matplotlib, Sckit-Learn(Machine Learning), R, Microsoft Excel
- Dashboards: Redash, Metabase, Tableau, PowerBI
- Microsoft Office: Word, Excel, Powerpoint

INTERESTS

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- Quantitative Trading/ Research
 - Data Analytics and Engineering
 - Data-driven insights and decision-making