Lee Heng Wai, Alan

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Hello! I'm Alan. I like writing code to solve business problems. I'm proficient writing python (object and functional), SQL and have worked with cloud technologies ie AWS S3, Cloudflare R2 buckets and workers. For database, I typically use SupaBase in my hobby projects.

SIDE PROJECTS

- Personal Website
- Ai Nutrition Analyzer App
(available on request)

SKILLS

- AGILE (Jira & Confluence)
- Business Intelligence
- Product Development
- Database Schema & Architecture
- ETL Pipeline
- Workflow Automation
- Statistical Inference

TECHNICALS

- Python, JavaScript / NodeJS
- Spark (pySpark / SparkSQL)
- SQL, PostgreSQL, NoSQL (CRUD)
- AWS S3 Bucket, Cloudflare R2
- Google Cloud Platform
- SupaBase (NoSQL)

SELECT WRITINGS

- Food Inflation
- Dollar Liquidity
- Safeguarding Your Crypto Assets: An Overview of Custody Solutions for Institutions and Individuals

SPOKEN LANGUAGES

- English (Fluent/Bilingual)
- Mandarin (Fluent/Bilingual)
- Japanese (Basic)

EDUCATION

University of London International Programmes
Bachelor of Science, Major in Economics, Upper 2nd Honours
Aug 2012 – Aug 2015

PROFESSIONAL EXPERIENCE

Shopee Singapore, Sea Group, Singapore
Senior Business Intelligence Analyst, Business Automation & Solutions || Feb 2024 – Current

- Conducted studies, simulations and pre-empting solutions to potential bottlenecks to drive continued operational success resulting in topline and SG market share growth
  -- Analyses contributed to executing and eventually growing Buyer Self-Collection (BSC) adoption from **28% to 40% of platform orders** (~120k daily BSC orders and growing)
- Workflow automation to reduce internal stakeholders' time-spent on mundane tasks via python and in-house DBT tools. Responsible for tuning, maintaining and improving existing in-house proprietary Machine Learning Model for SKU selection during Flash Deals (**15% of Platform Daily GMV**) – up to 70% of our flash deals are selected using the in-house model. XGBoost model showed improved metrics and SKU selection.

WEMIX Singapore, WEMADE, Singapore
Business Analyst, Blockchain & Investment Strategy || May 2023 – Feb 2024

- Led India market expansion research, insights, and proposed solutions to address existing product-market gaps by blending industry, market characteristics and in-house data.
- Business Development and Investor relations to existing Portfolio Companies; On-chain analysis and market insights to C-suite and senior management.

Crypto.com, Singapore
Research Analyst, Blockchain, DeFi, GameFi || Feb 2022 – Aug 2022

- Authored monthly articles on blockchain technologies (i.e. Asset Custody, Blockchain energy consumption). Provided weekly market updates on across all Blockchain sectors.
- Built a Daily RSS newsfeed aggregator to automate research team's info gathering on google sheets via google developer API; Automated Chart generation for slide decks; Automated tracking of social media accounts.

Wood Mackenzie, VERISK Analytics, Singapore
Data Analyst, Upstream Oil & Gas || Jan 2019 – Feb 2022

- Responsible for WoodMac's key data offering (North and Southeast Asia) – maintained, supported, governed and deployed production level datasets for client consumption. Data ingestion and automation via AWS Datalake suite with a focus on ETL methods.
- Designed, developed, and led end-to-end product development utilizing US Listed company financial data. Responsible for other ad-hoc automation workflows i.e. monitoring offshore vessel movement via coordinate geometry.

J.P Morgan Chase & Co
Research Analyst, Emerging Markets Asia, Economics || Mar 2018 – Aug 2018

- Responsible for commentaries on latest economic developments for EM Asia countries (Singapore, Malaysia, Indonesia), made available on JPMC's client portal.
- Utilised macroeconomic data to complement the firm's economic views (CEIC data, BIS, World Bank, FRED and JPMC's proprietary database); Applied various econometric, time series and detrending techniques.

Centre for Asset Management Research & Investment, NUS Business School
Research Analyst, CAMRI || Sep 2015 – Feb 2018

- Maintained and improved in-house quantitative model covering six Asian countries and US using academic literature, applied portfolio constraint optimisation methods via Barra Aegis and Bloomberg.
- Organised and evaluated macroeconomic data for NUS-Cornell Global Investors' Friendliness Index housed at CAMRI; Produced macroeconomic data visualizations for monthly market research pieces.