

Lee Heng Wai, Alan

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Hello! I'm Alan. I solve business problems with research, automation, and statistical analysis. I'm a researcher, a data analyst, and a software engineer all-in-one. I'm proficient in python, SQL for databases and I enjoy tinkering with the many different JavaScript frameworks.

SIDE PROJECTS	PROFESSIONAL EXPERIENCE
<ul style="list-style-type: none">Personal WebsiteCrypto RSS News ReaderAutomated news readerCentral Bank Speech extract	WEMIX Singapore, WEMADE, Singapore <i>Research & Data Analyst, Blockchain, Investments & Strategy May 2023 – Present</i> <ul style="list-style-type: none">Led new 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 stakeholders.Programmatic access to API endpoints to process and draw insight from data via python.
SKILLS	Crypto.com, Singapore <i>Research Analyst, Blockchain, DeFi, GameFi Feb 2022 – Jul 2022</i> <ul style="list-style-type: none">Authored monthly deep dive articles on nascent blockchain technologies (i.e., Asset Custody, Blockchain energy consumption)Provided weekly market updates on Layer 1&2 blockchain developments, GameFi and macroeconomic development to C-suite and senior stakeholders.Automated Daily RSS newsfeed aggregator to expedite research team's info gathering on google docs; Automated Chart generation for slide decks; Automated tracking of social media accounts.
TECHNICALS	Wood Mackenzie, VERISK Analytics, Singapore <i>Data Analyst, Upstream Oil & Gas Jan 2019 – Jan 2022</i> <ul style="list-style-type: none">Improved product data quality for regional datasets via data cleaning, pre-processing, data wrangling and statistical inference. Used BI dashboards to continuously track product data quality on internal Oracle RDBs. Applied geospatial analytics and geo-referencing techniques to enrich data product offering to clients (ESRI ArcMap, ArcPro). Contributed and documented part of the company's digital transformation initiative towards cloud-based data ingestion and automation via AWS Datalake suite with a focus on ETL methods.Projects: Designed, developed, and led end-to-end product development working with US Listed company financial datafeed, with the end goal of feeding it into corporate research reports. Developed in-house automation scripts and python GUI to improve workflow within other business units via using scripts to track Chinese upstream news flow and an offshore rig tracking tool blending key data points into actionable data.
SELECT WRITINGS	J.P Morgan Chase & Co <i>Research Analyst, Emerging Markets Asia, Economics Mar 2018 – Aug 2018</i> <ul style="list-style-type: none">Responsible for commentaries on latest economic developments for EM Asia countries (Singapore, Malaysia, Indonesia), made available on JPMC's client portal; MAS licensed (CMFAS modules M5, 6A etc).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 such as using the Hodrick-Prescott filter for internal stakeholders.Projects: Introduced data visualization methods for economic data via python's matplotlib; Replicated research paper results studying the unemployment-inflation relationship in R; Initiated the use of supervised and unsupervised machine learning classifier techniques to screen trade ideas for the strategy team.
SPOKEN LANGUAGES	Centre for Asset Management Research & Investment, NUS Business School <i>Research Analyst, CAMRI Sep 2015 – Feb 2018</i> <ul style="list-style-type: none">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.
EDUCATION	
University of London International Programmes <i>Bachelor of Science, Major in Economics, Upper 2nd Honours</i> <i>Aug 2012 – Aug 2015</i>	