

Russell Chan Wai Siong

Enterprise Data Science Lead | AI Product Leader | AI Transformation & Governance

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Summary

AI and data science leader building and scaling enterprise AI capability within a financial regulator. Proven track record of heading multidisciplinary teams of data scientists and engineers to deliver production-grade AI and agentic AI products that transform core business processes and measurably improve productivity. Equally passionate about growing people, developing talent through mentorship and leadership coaching, building organisation-wide AI literacy, and teaching GenAI for Business at post-graduate level as an Adjunct Lecturer.

Experience

Monetary Authority of Singapore (MAS)

Enterprise Data Science Lead | Apr 2024 – Present

Leading enterprise AI product development, data science capability-building and AI literacy uplift across MAS.

- Led and developed a multidisciplinary team of data scientists across seniority levels, growing technical capability and delivery ownership through mentorship, product ownership and leadership coaching.
- Delivered production-grade AI and agentic AI products that measurably improve officer productivity and enable end-to-end transformation of core business processes.
- **Owned and prioritised a portfolio of 20+ bespoke AI products**, directing resources towards the solutions with the strongest user and organisational value and retiring those without a clear case.
- Co-led enterprise AI safety, evaluation and governance, embedding guardrails, robustness testing and safety harnesses into products.
- Shaped enterprise AI platforms and reusable engineering capabilities that cut time to production from 24 months to 3, an **8x acceleration in delivery**, including model-selection frameworks, AI gateways, product metrics and standardised delivery patterns.
- Built organisation-wide AI literacy through technical workshops, practitioner communities, a curated AI knowledge hub and industry engagements.
- Brought hands-on AI building to the organisation, launching MAS's first vibe-cathon with **14 competing teams** and organising **vibe-coding workshops for 250+ participants**.

Awards:

- Public Service Festival 2025, Business Transformation Award
- MAS Team Awards 2025, OneMAS Award
- MAS Team Awards 2025, Transformation Award

Core Competencies: AI Leadership, Team Development and Mentorship, AI Product Strategy, Product Portfolio Management, AI Safety and Governance, Enterprise AI Transformation

Core Technologies: Agentic AI, AI Safety and Governance, AI Observability and Evaluation, Enterprise AI Architecture, AWS Bedrock

Enterprise Data Scientist | Jan 2022 – Mar 2024

Progressed from building data science solutions to leading the productisation of Generative AI across MAS.

- Designed and delivered machine learning, NLP and Generative AI products for complex enterprise use cases to create business value.
- Developed early RAG applications that enabled users to retrieve and synthesise information from enterprise knowledge repositories.
- Built Generative AI pilots across cloud platforms and transitioned successful prototypes into supported enterprise products.
- Applied graph-based approaches to represent relationships across entities and knowledge sources, establishing foundations for Knowledge Graph use cases.
- Established reusable code templates, Git-based workflows, documentation standards and productisation practices, and mentored junior data scientists and interns.

Core Competencies: Data Science, Machine Learning, AI Product Development, Productisation, Business Problem Translation, Technical Mentoring

Core Technologies: GenAI, RAG, Knowledge Graphs, Natural Language Processing (NLP), Machine Learning, AWS SageMaker, GCP Vertex AI

RHB Bank

Data Scientist, Financial Crimes Compliance | Jun 2020 – Dec 2021

Applied data science, graph analytics and document intelligence to strengthen financial crime risk management.

- Applied statistical analysis and below-the-line testing to tune transaction-monitoring thresholds, **reducing false positives by 40%** while maintaining detection effectiveness.
- Built customer relationship networks using NetworkX and graph analytics to uncover connected entities and prioritise potential fraudulent activity.
- Developed OCR and document-intelligence pipelines, which **delivered a 25% productivity gain** using Tesseract, to identify dual-use goods and combat proliferation financing.
- Developed customer segmentation and risk-classification models using clustering techniques including K-Means, and enhanced Customer Due Diligence risk scoring through statistical analysis of criteria.

Core Competencies: Financial Crime Risk Management, Anti-Money Laundering (AML) Analytics, Fraud Detection, Transaction Monitoring, Customer Risk Segmentation

Core Technologies: Graph Analytics, NLP, Optical Character Recognition (OCR), Clustering Algorithms, Computer Vision

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Data Analyst | Aug 2018 – May 2020

Expanded from analytics into data product development within a regional payments fintech, **supporting revenue growth of 400%** and a **300% increase in active users over 18 months**.

- Built predictive models, payment forecasts and executive dashboards for the CEO and board members, **driving a 40% improvement in lead conversion** and a **90% client retention rate**.
- Partnered with engineering teams to translate customer feedback and business requirements into product features and logic.

Core Competencies: Payments Analytics, Revenue Operations, Business Intelligence

Core Technologies: Predictive Modelling, Forecasting, Data Visualisation

Asia Media Exchange
Data Analyst | Nov 2016 – Jul 2018

Built foundational expertise in analytics, optimisation and technology product delivery across APAC media markets.

- Supported development of a proprietary optimisation algorithm that **cut media plan costs by 30% and reduced plan development time by 95%**.
- Defined product requirements, designed user workflows and partnered with developers on implementation, QA and market rollout across Indonesia, Malaysia and Thailand.

Core Competencies: Media Analytics, Product Go-To-Market

Core Technologies: Optimisation Algorithms, Data Visualisation

AIA Singapore
Financial Services Consultant | Nov 2015 – Oct 2016

Developed early strengths in client advisory, financial analysis and translating complex financial considerations for non-technical audiences.

Core Competencies: Financial Analytics, Stakeholder Communication

Education

Master of Science, University of Stirling (Singapore)
Data Science for Business 2019 – 2020

Bachelor's Degree, RMIT Australia (Singapore)
Professional Communication 2014 – 2015
