

BRYAN WEI XUAN CHEONG

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EDUCATION

Imperial College London — MSc in Business Analytics (Predicted Distinction) Aug 2024 - Aug 2025
Modules: Databases, Data Visualisation, Energy Analytics, Generative AI & Large Language Models, Financial Analytics, Logistics & Supply Chain Analytics, Network Analytics, Digital Marketing Analytics, Statistics & Econometrics, Text Analytics

University College London — BSc in Computer Science (2:1, Grade 68%) Sep 2021 - Jul 2024
Project: Cleaning Lagged Covariance Matrices Using Rotationally Invariant Estimators (RIE)
Modules: Algorithms, Cybersecurity, Interaction Design, Machine Learning, Mathematics & Statistics, OOP, Software Engineering

SKILLS

Programming	Python, SQL, R (Proficient); JavaScript, HTML/CSS (Experienced); Java (Basic)
Python Libraries	NumPy, pandas, Matplotlib, scikit-learn, TensorFlow, PyTorch, CatBoost, Shapley Additive Explanations (SHAP)
Technical Tools	ETL, PostgreSQL, Power BI, Tableau, AWS, Databricks (Spark), DAX, GitHub, Docker, Jira, Confluence, Excel
Languages	English (Native), Cantonese (Fluent), Mandarin (Intermediate), Malay (Intermediate)

PROFESSIONAL EXPERIENCE

Anavio Capital Hedge Fund *London, UK*
Equity Analytics Intern – Long/Short Strategy Jul 2023 - Sep 2023

- Built an equity screening dashboard integrating 15+ capital efficiency metrics to support uncorrelated long/short strategies targeting idiosyncratic returns. Scaled daily coverage from 10 to 200 tickers, reducing manual workload by 80% through automation
- Enhanced pipeline robustness with 100+ Pytest tests and six error-handling decorators, reducing downtime and debugging time
- Translated complex logic into clear flowcharts and wireframes for management, accelerating alignment and halving delivery time

General System Engineering *Malaysia*
Enterprise Resource Planning (ERP) Assistant May 2023 - Jul 2023

- Collaborated with cross-functional ERP users across five departments to gather 30+ requirements, understand operational challenges, and locate critical bugs. Tailored the ERP with consultants to enhance process efficiency by 25% and meet departmental needs
- Co-led daily conference room pilots, training 90 employees on the ERP system to ensure smooth system adoption

British Red Cross *London, UK*
Data Analyst Sep 2022 - Apr 2023

- Developed a Power BI app with 20+ interactive dashboards to analyse complaints data, providing actionable insights for support teams and key stakeholder reports. Enhanced decision-making and reduced complaint resolution time by 50%
- Built an ETL pipeline in Power BI Dataflows to extract data from four sources, normalised it into fact and dimension tables, and leveraged DAX for advanced reporting features like geographical drill-downs and slicing, enabling consistent and scalable reporting
- Secured future development by presenting a streamlined issue resolution system along with a deployment manual to the Head of Data

PROJECTS

Beat The Bookies. Engineered a classifier achieving 51% validation and ~40% test accuracy for Premier League games using a dataset of 18 features spanning 20 seasons. After evaluation, five recent seasons were chosen for training, as older data showed diminishing returns. Feature-engineered matchup-specific Pi-ratings with tuned hyperparameters using two grid searches. Applied SHAP summary plot for feature selection. Explored sentiment analysis with an LLM with the Nitter API to score teams based on pre-game discussions

RIE Noise Reduction of Lagged Covariance Matrices (Grade: 72%). Developed a novel algorithm using research on RIEs to clean high-dimensional lagged covariance matrices to combat curse of dimensionality. Applied techniques, including Singular Value Decomposition (SVD) and Frobenius Norm optimisation, to enhance covariance accuracy, achieving 100% noise reduction in AR(0) models and an average 20% improvement in signal-to-noise ratio for AR(1), with better improvements as number of dimensions increases

Public Perception on Benefit Fraud. Analysed eight variables in the 2019 British Social Survey on benefit fraud with two-sided t-tests, linear regression and more using R. Found public estimates (34.6%) far exceeded the government's (1.1%), with discrepancies influenced by political affiliation and education level. Highlighted the need for targeted education to address public misconceptions

TetrisAI. Implemented a Tetris heuristics evaluation AI, scored 28,000+ points using 400 blocks, 80th percentile in UCL's cohort

AWARDS AND CERTIFICATIONS

Boston Consulting Group — Introduction to Strategy Consulting (Forage) Oct 2024

Goldman Sachs — Software Engineering Experience Program (Forage) Jul 2024

Harvard University — CS50x Puzzle Day: Perfect Score (Teams of Six, Top 13% in the World) Apr 2020