

WU ZHOUHAN

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EDUCATION

London School of Economics (LSE)

BSc Mathematics & Economics — Predicted First-Class Honours

London, UK

2025 – 2028

- Relevant Coursework: Algorithms & Data Structures, Optimisation, Real Analysis, Econometrics, Statistics, Mathematical Methods, Abstract Mathematics, Micro/Macroeconomics
- Activities: Data Science and Quant Society (Head of Events), MBP Capital (Macro), LSE Content Creator

Anglo-Chinese School (Independent)

IB Diploma Score: 45/45

Singapore

2017 – 2022

PROJECTS

Predicting London Property Prices

Machine Learning Engineer

London

2025 – Present

- Best Project, LSE Data Science and Quant Society Showcase 2026; built a LightGBM model on 500k+ rows to predict London property prices, achieved 91% R^2 / 11% MAE on unseen data.
- Engineered features and tuned hyperparameters with Optuna; validated out-of-sample using time-series-split cross-validation.
- Used a Huber-loss objective for robustness to price outliers and segmented the model across property sub-markets to improve accuracy.

Cambridge Centre for International Research (CCIR)

Network Science Researcher

Remote

2024

- Used diplomatic-relations network data as an alternative signal for cross-country capital-market inflows, via panel regression on IMF datasets.
- Applied graph theory in Gephi and NetworkX (Python) to compute and visualise cross-country network metrics.
- Nominated CCIR Spotlight Scholar for high quality of research.

Atlas - Social Media and Planning App for Travel

Founding Engineer

London

2025 – Present

- Founding engineer of a travel-matching app (live 100-user MVP); designed the Travel Blend matching algorithm using Jaccard and cosine similarity.
- Built the PostgreSQL/Supabase backend and PostHog data pipelines to track user behaviour and inform product decisions.

WahUniversity

Co-President

Singapore

2023 – 2025

- Co-led a nonprofit matching 300+ high school students to 200+ global mentors; automated mentor-student matching with a custom Telegram bot.

EXPERIENCE

Barclays

Technology Developer - Spring Programme; Discovery Finalist (Summer 2027)

United Kingdom

2026

Accenture (Client: A*STAR)

Automation Engineer Intern - SAP ERP Transformation Project

Singapore

2025

- Built pandas pipelines to clean, transform, and migrate data across test environments, cutting data-prep time by > 40%.
- Built automation tooling (Playwright + Streamlit) to simulate enterprise workflows, reducing test execution time by > 80%.

Singapore Police Force (Police National Service Department)

Resource & Budget Planning

Singapore

2023 – 2025

- Built a Random Forest classifier to categorise financial transactions and improve budget allocation (>\$10 million in funds).
- Spearheaded “Finance 2.0” automation, deploying PowerBI dashboards and process automation, saving > 20 hours/month.
- Integrated GovTech’s VICA AI chatbot into the department intranet; curated its knowledge base and tuned responses, cutting manual email support load by > 38%.

SKILLS & TOOLS

- **Programming Languages:** Python, SQL, TypeScript/JavaScript, VBA
- **ML/Data Frameworks:** scikit-learn, LightGBM, Optuna, pandas, numpy, matplotlib, Streamlit
- **Tools:** Git, PostgreSQL, Supabase, PowerBI, PostHog, Excel, Azure DevOps
- **Languages:** English, Chinese, French