

Harry Zhong

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EDUCATION

Curtin University

Bachelor of Science (Actuarial Science) (Honours), CWA: 84%

Bentley, WA

Feb 2019 – Jun 2023

Actuaries Institute

Actuary Program (AIAA)

Perth, WA

Jul 2023 – Oct 2023

Actuaries Institute

Fellowship Program – Banking

Perth, WA

Jan 2025 – Present

EXPERIENCE

Analyst | Risk Analytics Strategic Initiatives

Commonwealth Bank

Aug 2024 – Present

Perth, WA

- Did stuff with data

Data Analyst

EBM Insurance & Risk

Nov 2022 – Jul 2024

Perth, WA

- Gained a strong understanding of data analysis principles (relational databases, query languages, modelling) and applied them to a broad range of financial and insurance applications (financial reporting, scenario analysis, cashflow projection).
- **Development:** Contributed to income forecast project which used statistical techniques in *R* to predict future income for financial reporting. Key contributor to the internal development of data analysis applications using *SQL* and *R*. Introduced the use of *Shiny* applications for data visualisation, and *Git* for version control.
- **Automation:** Delivered monthly income reports using *VBA* to automate repetitive tasks, resulting in a 70% reduction in report generation time. Implemented *Microsoft365R* and *SQL* to fully automate distribution of scheduled reports, resulting in a 50% reduction in report distribution time.
- **Reporting:** Conducted ad hoc data analysis based on stakeholder needs. Modelled annual income of client portfolios in *Microsoft Excel* for discounted cash flow valuations.

PROJECTS

Topic Modelling - Messenger Chatlog ☞ | *Python, Gensim*

2025

- Topic discovery within chat logs using latent Dirichlet allocation in Python.

Gender Prediction - PyTorch ☞ | *Python, PyTorch*

2024

- PyTorch implementation of a custom convolutional neural network used to classify gender, trained using publically available data.

Spotify Track Clustering ☞ | *R, Spotify API*

2024

- Extraction and analysis of Spotify streaming history by applying k-means clustering and Shiny visualisation in R.

Honours Dissertation - Stochastic Volatility ☞ | *R*

2023

- Research involving stochastic modelling to compare constant and stochastic volatility under geometric Brownian motion.

TECHNICAL SKILLS

Languages: R, Python, SQL, Visual Basic

Software: Excel, Power BI, Apache Spark

Developer Tools: Git, GitHub, VS Code, R Studio

Libraries (R): ggplot2, dplyr, tidyr, purrr

Libraries (Python): pandas, NumPy, PyTorch, PySpark