

Yunzhao (Daniel) Li

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Data Scientist | Quantitative Analyst & Researcher | Data Engineer | Machine Learning Engineer

SKILLS

- **Programming Languages:** Python, R, SQL, Java
- **Analytics Tools:** Scikit-learn, Pandas, NumPy, PyTorch, Spark, Matplotlib, Jupyter Notebooks, Excel, Git/GitHub
- **Machine Learning:** Supervised/Unsupervised Learning, PCA, Time Series Forecasting (MLP, CNN), Feature Engineering
- **Data Engineering & Databases:** Data modeling, ETL/ELT workflows, SQL optimization, pipelines, API integration
- **Soft Skills:** Problem Solving, Collaboration, Effective Communication, Project Management, Leadership, Presentation

EDUCATION

Western University, London, ON	Sep 2025 – Aug 2026
• Master of Data Analytics	
• Relevant Coursework: Artificial Intelligence, Databases, Machine Learning, Unstructured Data, Reinforcement Learning	
University of Toronto, Mississauga, ON Annual GPA: 3.76	Sep 2020 – Aug 2025
• Honours Bachelor of Science in Statistics Specialist and Mathematics Minor	
• Relevant Coursework: Advanced Statistical Learning & Modeling, Time Series Analysis, Stochastic Processes, Linear Algebra	

WORK EXPERIENCE

Business Analyst (Internship) Top Knowledge Co., Toronto, ON	Jun 2025 – Aug 2025
• Conducted in-depth data analysis using VBA/Excel to categorize customer behaviors and needs, enabling the design and implementation of targeted marketing strategies that successfully increased customer retention rates by 17%.	
• Designed and maintained dashboards that streamlined customer reports and enhanced report accuracy, thereby accelerating compliance adaptation and helping management decision-making, resulting in a 15% boost in operational effectiveness.	
• Spearheaded the development of a robust data integration framework , consolidating multiple data sources into a unified SQL database to enhance data accessibility and reliability across business units.	
Data Analyst (Internship) AstraZeneca (Central Marketing Department), Shanghai, CN	Nov 2022 – Oct 2023
• Analyzed market dynamics and competitor products using Python/SQL/Excel ; built evidence-based visuals (Tableau/Power BI) for seminar briefings that cut prep time and improved forecast accuracy by 12%.	
• Processed and reconciled large datasets in Excel (pivot tables, LOOKUPs, VBA); delivered weekly performance reports to leadership and partnered cross-functionally.	
• Built and back-tested factor/alpha models in Python (pandas, NumPy); automated ingestion/cleaning of market data (e.g., Bloomberg/Quandl); reduced research runtime by 40% and expanded universe coverage from 300 to 470 tickers.	

PROJECT EXPERIENCE

Electricity Demand Forecasting Python, PyTorch, Time-Series ML	Oct 2025 – Nov 2025
• Built a scalable forecasting pipeline for 52k+ time-series entries, integrating preprocessing, temporal splits, and feature engineering (lags, rolling windows, cyclical encodings).	
• Benchmarked Linear/Ridge, MLP, and 1D-CNN architectures using a reproducible 5-run setup; delivered a top-performing CNN that significantly outperformed classical and naive baselines.	
OSFI Risk-Weight Mapping Engine SQL, Data Modelling	Sep 2025 – Oct 2025
• Designed SQL pipeline mapping 1,000+ bonds to OSFI risk weights using multi-agency ratings (S&P, Moody's, Fitch, DBRS); implemented ranking/CTE logic for 1–3+ rating scenarios and sovereign defaults.	
• Optimized query design to improve processing time by 40%, enabling reliable risk reporting for credit-risk teams.	
LexiGO – Language Learning Desktop App Java, OOP, Clean Architecture, Agile	Jul 2025 – Sep 2025
• Developed a Java Swing application with Clean Architecture , enabling adaptive vocabulary learning via flashcards, spaced repetition, and gamified features (streaks, badges, leaderboards).	
• Implemented core modules and analytics dashboards with JSON-based persistence, ensuring robust, maintainable code through unit and integration testing , while collaborating in an Agile team using GitHub .	
Bayesian Analysis of WWII Bombing Target Prioritization R, Feature Engineering, Bayesian OLR	Mar 2024 – Apr 2024
• Processed a 178k-record wartime THOR dataset (filtered to 64k German missions) and engineered analytical features using tidyverse, producing a fully reproducible data pipeline .	
• Constructed a Bayesian ordered logistic regression model (rstanarm) with complete MCMC diagnostics and posterior predictive checks to quantify drivers of Allied target prioritization; project selected for publication in professor's book .	