

# LEON YIP

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## EDUCATION

University of Chicago | *M.S. Computer Science*

Expected Mar 2026

● Courseworks: Machine Learning, Data Analytics, Databases, Big Data Application Architecture, Cloud Computing.

University of Hong Kong | *Bachelor of Finance and Psychology* / GPA: 3.71/4.00

Jun 2018

● Courseworks: Data Structure, Hypothesis Testing, Regression, Econometrics, Probability & Statistics, Economics.

● Awards: Dean's List, Evergreen Scholarships, Oral Presentation Award. ● Exchange: **King's College London** / GPA: 4.00/4.00

## SKILLS

● **Programming Languages & Tools:** Python, Java, SQL, Pandas, NumPy, Matplotlib, Polars, Scikit-learn, Pytorch. MS Excel.  
● **Data Science & Analytical Skills:** Predictive Modeling, Clustering Analysis, Data Visualization.

## RELEVANT PROJECTS

WorldQuant Brain Challenge

Aug – Sep 2024

*Gold medal recipient: Ranked top 1% among 45,000+ worldwide university students / WorldQuant Consultant offeree*

● Derived 10+ alphas based on technical factors and fundamental variables, with average 8% excess return and 1.77 Sharpe ratio.  
● Leveraged Python script to automate the generation of alphas by extracting target variables from online databases, iteratively backtesting 10,000+ combinations of variables and efficiently identifying strategies with superior performance.

Kaggle Home Credit - Mortgage Credit Risk Model Stability

Apr – May 2024

*Silver medal recipient team member: Achieved top 5% among 3,800+ teams*

● Developed an ensemble machine learning model based on training data with 1M+ observations to predict housing mortgage loan clients' default risk. Uplifted model stability by employing linear blending on LightGBM and CatBoost models.  
● Implemented feature engineering and selection to identify best predictive features from a pool of 450+ variables of multiple sources.

## PROFESSIONAL EXPERIENCE

Taiping Financial Technology Service

Shanghai, China

*Software Development Intern*

Jun – Jul 2024

● Facilitated the migration of microservices by containerizing with Docker and orchestrating deployment on Kubernetes clusters.  
● Proposed migration strategies and timeline to ensure efficient deployment and minimize disruption to 2,500+ daily users.

Assistant Manager, Hang Lung Properties

Hong Kong

*Data Scientist, Business Development*

Feb – Aug 2023

● Conducted polynomial regression analysis on housing market data to identify 15+ significant features and generate forecasts. Projected fair price range for 200+ units of residential properties for strategic planning.  
● Developed discounted cash flow models to project cash flows in multiple scenarios for housing projects of NAV US\$600M+.  
● Performed data cleansing and feature engineering on raw market data consolidated from multiple external sources.

*Data Analyst, Customer Experience*

Jul 2021 – Feb 2023

● Conducted linear and LightGBM regression to evaluate the significance of 10+ pain points in explaining customer satisfaction.  
● Identified and proposed 20+ most cost-effective optimization opportunities for specific customer segments and individual malls, reducing complaints by 18% and catalyzing 11% growth in Net Promoter Score YoY.  
● Automated data visualization process to highlight recent trends and significant features for monthly reporting to C-suite management. Created dashboards that enabled real-time tracking of project-specific and group-wide KPIs.  
● Facilitated the collection of customer data by launching Qualtrics online survey and managing databases covering 13 properties. Performed data preprocessing by cleaning and integrating data with customer demographics and recent engagements.  
● Collaborated with engineers to implement Google Cloud AI optical character recognition (OCR) for receipt image processing, resulting in instant verification for 55% of transactions, 48% reduction in average processing time and 10% cost saving.

## CERTIFICATES

CFA Level II Candidate, Python & Java Programming, Data Analysis, Computational Thinking (UPenn Coursera), MySQL (CUHK), Calculus (UCBerkeley Extension).