

EDUCATION

WorldQuant University Master of Science in Financial Engineering	Remote Oct 2024 – Current
Western Sydney University Vietnam Bachelor of Business – Applied Finance Major (advanced graduation - degree completion in 2 years) <ul style="list-style-type: none">Dean's Merit List for Academic Excellence - Distinction Award (GPA: 6.43 / 7.00)First-year Vice-Chancellor's Academic Excellence Scholarship, highest tierSecond-year Vice-Chancellor's Academic Excellence Scholarship, highest tierThird-year Vice-Chancellor's Academic Excellence Scholarship, highest tier (awarded 1 year in advance)High Distinction in Econometrics, Philosophical Economics, Securities & Business Valuation, Financial Institutions & Markets, Management, Accounting, Economics, Enterprise Law, Consumer Behaviour, International Business, Corporate Finance, Human Resources	Ho Chi Minh City, Vietnam May 2022 – May 2024
VNU-HCM University of Economics and Law (UEL) – Discontinued <ul style="list-style-type: none">Academic scholarship for highest GPA in Semester 1 across all students in the cohortHighest GPA enrolment scholarship (SAT/IB/ACT pathway)Assisted with qualitative data analysis for a paper titled "Peer Tutors' Agency and Emotions in Tertiary English Education in Vietnam" and participated in Sociology and Cross-Cultural Studies classes for Master's students	Ho Chi Minh City, Vietnam
Condell Park High School <ul style="list-style-type: none">Valedictorian / Dux of High School and First in Course throughout all academic yearsHSC Band 6/6 for Mathematics Advanced and Mathematics Extension 1School Science Award Victor Chang Cardiac Research InstituteHigh School Student Academic Excellence Award University of SydneyDistinction & Merit awards Australian Mathematical Olympiad (AMO) & Australasian Problem Solving Mathematical Olympiads (APSMO)Top 8% of students in Australia in English University of New South Wales International Competitions and Assessments for SchoolsEarned advanced standing, skipping 1 academic year based on outstanding performanceNominated for the NSW International Student Award State of New South Wales, Australia	Sydney, Australia
Tran Dai Nghia High School for the Gifted – Discontinued	Ho Chi Minh City, Vietnam

RELEVANT EXPERIENCE

Quantitative research assistant ICLS Tech <ul style="list-style-type: none">Performed comprehensive data cleaning, preprocessing, and feature engineering on FOREX and CRYPTO datasets, ensuring high-quality inputs for machine learning models.Applied a triple-labelling method for labelling FOREX and CRYPTO data, integrating regime-switching models such as Gaussian Mixture Models and Hidden Markov Chains to enhance prediction accuracy in volatile market conditions.Developed and implemented automated machine learning pipelines to assess the probability of backtest overfitting and evaluate the robustness of existing cross-validation schemes.	Ho Chi Minh City, Vietnam April 2024 – Current
Product assistant YOLA English <ul style="list-style-type: none">Assisted the Product Manager in developing an English learning app and web extension, conducting market research and executing targeted marketing strategies; increased the app's user base by 25,000 and the extensions by 15,000, achieving a monthly active user rate of ~50%.Collaborated with external artists to implement user nurturing strategies, resulting in a 7-10% retention rate for the 21-day user cohort.	Ho Chi Minh City, Vietnam Jan 2022 – Jan 2023

TECHNICAL PROJECTS

Evaluate backtest overfit in popular financial cross-validation schemes using AutoML (research paper) Machine learning, Python <ul style="list-style-type: none">Use regime-switching models (Hidden Markov Chain) and Entropy Theory of Information for feature construction and engineering FOREX and CRYPTO dataEvaluate the extent of overfit in K-Fold, Purged K-Fold, Walk Forward, Combinatorial Purged & Embargoed Cross Validation (CPCV) using Automated ML pipelines	Not published yet
Business model analysis and stock valuation of public company – Hoang Anh Gia Lai Finance, Excel <ul style="list-style-type: none">Analysed HAG's 3F business model, SWOT, Porter's competitive positioning analysis, financial ratios, valuation risk (sensitivity analysis and scenario analysis) and investment risks (Altman's Z-Score, Kupiec POF test and Monte Carlo simulation).Initiate coverage on HAG with a BUY recommendation based on a target price of 11,220 VND through a weighted mix of DCF, APV, and relative valuation (CCA).	Link
Stock analysis & Value-at-Risk estimation for major US tech companies Finance, Python <ul style="list-style-type: none">Provide analysis of the stock performance (AAPL, AMZN, GOOG, MSFT), incl. closing prices, trading volumes, moving averages, daily returns using real-time dataEstimate Value-at-Risk using 3 methods: historical, parametric and Monte Carlo simulation.	Link
Loan approval prediction using k-Nearest-Neighbour model built from scratch Machine learning, Python <ul style="list-style-type: none">Build a kNN model from scratch to predict loan approval and simple linear regression to improve accuracy	Link

EXTRACURRICULARS & NON-ACADEMIC ACHIEVEMENTS

<ul style="list-style-type: none">P&G PEAKathon 2024 Top 4 Local Finalists of VietnamHCMC Department of Industry & Trade & HAWEE ASEAN++ Bridge Business Forum Represented Australia at the high-profile business networking event, attracting over 500 global business leaders, promoting sustainable development in the ASEAN region.UEL English Club EFFI Project leader of a team of 40+ members, organised two successful projects attracting over 250 participants.YOLA Tutored students, ranging from school-age to working professionals, in IELTS preparation and general English language proficiency.Project X Participated in a non-profit fellowship program to connect tech startups with the Vietnamese students interested in IT and offer mentorship, career orientations, and technical / soft-skills training through events/workshops and building communitiesVietnam's Southern region IELTS Talent Contest 2021 First place award (month) and Merit award (quarter)Freelance graphic designer Designed 200+ presentations, logos, marketing and product materials in accordance with strict regulatory requirements (U.S. FDA standards) for export to international markets such as Japan, New Zealand, and the U.S; experience in preparing materials for both digital and print production
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SKILLS

<ul style="list-style-type: none">Technical tools Python, R, PostgreSQL, LaTeX, Markdown, CSS, Excel, SPSS, Minitab, Stata, PowerBIFinance Financial machine learning (time series forecasting, predictive modelling, algorithmic trading), securities analysis, company valuation, corporate finance & capital structure, portfolio management, economic and financial modelling, international financeBusiness strategy Consumer behaviour analysis, customer segmentation, market research, strategic management, consulting, international business strategyLanguage English (IELTS 8.0, 4.5 years of overseas study experience)Graphic design Adobe Photoshop, Adobe Illustrator
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