

Yu Zheyuan

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Summary

Incoming Cambridge Computer Science student and international Olympiad competitor with hands-on industry experience in quantitative research, computer vision, and data analytics. Passionate about applying ML and algorithmic thinking to real-world problems.

Education

University of Cambridge <i>Bachelor of Arts in Computer Science (St John's College)</i>	2026 – 2029 United Kingdom
NUS High School of Math and Science <i>Honors in Mathematics; Majors in CS, Physics, Chemistry</i>	2020 – 2023 Singapore

Awards & Scholarships

Programming: Google Code Jam Top 50 Globally, Meta Hacker Cup Top 50 Globally, APIO Silver, NOI Third Runner Up
Mathematics: SMO Open Top 10, SMO Gold, USAMO Qualifier, USAJMO Qualifier
Scholarships: Tay Eng Soon Scholarship, Edusave Scholarship for Independent Schools

Experience

MS Capital <i>Quantitative Research Intern</i>	Apr. 2026 – Present Singapore
<ul style="list-style-type: none">Built end-to-end AI agent pipelines for automated strategy backtesting and evaluationDesigned scalable workflows for large-scale data ingestion, and feature engineering from raw market data.Used AI Agents to identify, create, and validate alpha signals.	
Huawei Singapore <i>Computer Vision Algorithm Engineer Intern</i>	Jan. 2026 – Mar. 2026 Singapore
<ul style="list-style-type: none">Developed deep learning models for ROI extraction under strict compression constraintsResearched trade-offs between latent space regularization and reconstruction quality in generative models.Implemented a hybrid VAE + RL framework for adaptive image compression	
Temasek International <i>Data Analytics Intern</i>	Oct. 2023 – Dec. 2023 Singapore
<ul style="list-style-type: none">Analyzed financial datasets using SQL and Tableau to surface market trendsBuilt interactive dashboards adopted by senior analysts to improve portfolio visibility and reporting efficiency.Presented data-driven findings to stakeholders to support investment decision-making.	
NUS December Course <i>Lecturer</i>	Nov. 2022 – Dec. 2022 Singapore
<ul style="list-style-type: none">Designed curriculum and authored original contest problems in competitive programming for 100+ top national students.Coordinated with fellow lecturers to run technical workshops, covering algorithms, data structures, and problem-solving.	

Projects & Research

Longest Simple Path with ML <i>PyTorch, Neural Combinatorial Optimization</i>	2022
<ul style="list-style-type: none">Developed ML models to approximate the NP-hard longest simple path problem, outperforming state-of-the-art genetic algorithms on benchmark graphs.Co-authored research paper; led data pipeline design, model architecture decisions, and experimental evaluation.	

Technical Skills

Languages: Python, C++, Java, SQL
Frameworks & Tools: PyTorch, NumPy, Pandas, Claude, Tableau
Concepts: Agentic Workflows, Machine Learning, Neural Combinatorial Optimization, Image Compression, Financial Analysis