

Lemuel Lee

ASPIRING QUANTITATIVE ANALYST

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fluent in English, Cantonese, Mandarin

EDUCATION

- M. Sc. in Environmental Data Science and Machine Learning Imperial College London 2025
- B. Eng. in Computer Science The University of Hong Kong 2024
 - Minor: Sustaining Cities, Cultures, and the Earth
 - Elective Focus: AI & Robotics
 - Thesis: Graph Representation Learning on International Electricity Market
 - * supervised by Dr. Chao Huang
- Study Abroad in Computer Science Royal Holloway, University of London 2023

WORK EXPERIENCE

LOW CARBON CONTRACTS COMPANY

LONDON

- Modeller Intern Summer 2023
 - Contributed to a Databricks PySpark Monte Carlo energy market forecasting model supporting company's role as the regulatory CfD counterparty for low-carbon generators
 - Architected distributed machine learning infrastructures for modelling interconnectors and pumped storages, with automated model selection and retraining

SHATIN PUI YING COLLEGE

HONG KONG

- Question Writer & Programmer Summer 2022
 - Developed test cases for precision, extreme values, edge cases, and time complexity
 - Prototyped web service for converting HTML+KaTeX to MS Word document
- Full Stack Developer Summer 2021
 - Architected, developed, and deployed a multi-user end-to-end e-ticketing solution
 - Automated and optimised event scheduling and staff allocation tasks
- Question Writer & Programmer Summer 2021
 - Authored Mathematics and Physics questions in an in-house domain-specific language for generating typesets, graphs, and 3D graphics
 - Featured on Sing Tao Daily, oldest and second-largest Chinese newspaper in Hong Kong

TEACHING EXPERIENCE

FACULTY OF ENGINEERING, THE UNIVERSITY OF HONG KONG

- Faculty Peer Mentor for first-year engineering students 2023-2024
- Staff-Student Consultative Committee student representative Fall 2023

DEPARTMENT OF COMPUTER SCIENCE, THE UNIVERSITY OF HONG KONG

- Teaching Assistant for Computer Programming (COMP1117) Dr. Tat Wing Chim Fall 2023
- Teaching Assistant for Computer Programming II (ENGG1340) Dr. Tat Wing Chim Spring 2022
- Teaching Assistant for Computer Programming I (ENGG1330) Dr. Dirk Schnieders Fall 2021

SCHOLARSHIPS

- HKU Worldwide Undergraduate Student Exchange Scholarships 2023
- South California Pui Ying Alumni Association Scholarship 2019
- South California Pui Ying Alumni Association Scholarship 2017

COMPETITIONS

- Invitee in Hong Kong Counter-Strike 1.6 Retro LAN Showmatch TiG (ASUS sponsored) 2023
- Finalist vs Berkeley, Imperial, Yale, Stanford in Algo Crypto Trading Challenge Algogene 2023
- 2nd in Electronic Trading Challenge Jane Street Capital 2022
- HKU 6th InnoShow The University of Hong Kong 2022
- 2nd in Mini Robotic Car Competition City University of Hong Kong 2017
- Code For Good J.P. Morgan 2022
- Hackathon Cathay Pacific 2021

SOFTWARE PROJECTS

COURSEWORK

1. Spatial-temporal graph neural network modelling of European electricity market with models based on GATs, STGCN, and Transformer A
2. Statistical image classifier without neural network or convolutional kernels accuracy top 10%
3. External domain-specific language for 3D CAD with Backus–Naur form parser, elided Structural Operational Semantics rules, and interpreter in action semantics A
Powered by JavaFX and ART A. Johnstone, E. Scott, Translator generation using ART
4. Linux shell in C with program execution, signals, background processes, piping, and process statistics A
5. Offensive cyber-security Unity game with emulated Linux DE with shell, file-system, networking, and users
Participating project of the HKU 6th InnoShow <https://innoacademy.engg.hku.hk/hack/> A
6. Multiplayer card game in JavaFX, Java RMI, and JMS A

OPEN-SOURCE CONTRIBUTIONS

1. [raft/raft.github.io](https://raft.github.io) Website for the Raft consensus algorithm 1374 stars
2. [EnergieID/entsoe-py](https://github.com/energieid/entsoe-py) Python API client for the Transparency Platform of ENTSO-E 424 stars
3. [d-mok/MathTree](https://github.com/d-mok/MathTree) Web editor and JavaScript-based DSL for generating Maths and Physics MCQs

PERSONAL

1. lemuellee.com Personal site in SvelteKit and TailwindCSS, scores 97 on Google Lighthouse 7 stars
2. 1189 Challenge Full stack Bible Reading Challenge PWA & SPA in Vue, Quasar, and Supabase 15 users
3. MC OMR Bubble sheet processing app in Qt and OpenCV 13 stars