

KWOK-LAM LEE

Computer Science Penultimate Year Student / Aspiring Software Engineer

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📍 London
Hong Kong

EXPERIENCE

Question Writer & Programmer

Mar 2021 — Aug 2021 & Jul 2022 — Aug 2022

Shatin Pui Ying College

- ❑ Authored question templates following the HKDSE Mathematics and Physics syllabuses
- ❑ Developed and programmed in a domain-specific language based on JavaScript and KaTeX
 - Generated HTML, typeset mathematical expressions, tables, graphs, and 3D graphics
- ❑ Featured on Sing Tao Daily: <https://std.stheadline.com/smartparents/article/2572>

Full Stack Developer

Jun 2022 — Aug 2022

Shatin Pui Ying College

- ❑ Developed a Musical e-ticketing system
 - Mission control, order management, seat arrangement, and digital admission.
- ❑ Developed web apps for scheduling exams, lessons, and HKDSE invigilation

Student Teaching Assistant

Fall 2021 & Spring 2022

The University of Hong Kong

- ❑ ENGG1340: advanced Python, C/C++, data structures, Linux shell, separate compilation
- ❑ ENGG1330: Python, searching and sorting algorithms
- ❑ Weekly labs and coursework feedback

EDUCATION

Bachelor of Engineering in Computer Science

Sep 2020 — Jun 2024

The University of Hong Kong

- ❑ Pursuing Focus — Theoretical Computer Science

International Exchange — Computer Science

Jan 2023 — Jun 2023

Royal Holloway, University of London

Secondary Education — Hong Kong Diploma of Secondary Education

Sep 2013 — Jun 2020

Shatin Pui Ying College

- ❑ First in ICT, Third in Physics

SKILLS

Programming Languages

Python, C/C++, C#, JAVA, Haskell, JavaScript, TypeScript, SQL, L^AT_EX

Frameworks & Libraries

Node.js, Express.js, jQuery, React, Vue.js, SvelteKit, Quasar, Tailwind CSS, Flask, Qt, Unity, OpenCV, Sklearn, TensorFlow, PyTorch

Platforms & Tools

Linux, Docker, Git, MySQL, PostgreSQL, MongoDB, Supabase, Arduino, Processing

lemuellee.com

Jan 2023

Personal Website, Portfolio, Blogging

- ❑ SvelteKit, Tailwind CSS, TypeScript, KaTeX, Vite, Netlify, MDsveX, PrismJS, RehypeJS
- ❑ Achieved in Google Lighthouse: Performance (96), Accessibility (97), Best Practices (100), SEO (100)

CIFAR10-HOG-PCA-SVM

Dec 2022

Image Classifier for CIFAR-10

- ❑ Pure statistical approach with top 10% accuracy
- ❑ RBF SVM with HOG and PCA

3230shell

Oct 2022

Linux shell

- ❑ Command parsing, program execution, signals, background processes, piping and process statistics

Enoch Bible Reading Challenge

Oct 2022

Full-stack reading challenge web app

- ❑ Progressive Single Page Application, instantly install-able on all major OSs
- ❑ Built with Vue.js, Tailwind CSS, Supabase, and Netlify

HackOS

May 2022

Offensive cyber-security Unity game

- ❑ Sandbox experience with replicas of nmap, ssh, hydra, and more
- ❑ Participating project of the HKU 6th InnoShow: <https://innoacademy.engg.hku.hk/hack/>

RNA Fighter

May 2021

Retro-styled terminal game on COVID-19

- ❑ Shop, currency, and leader-board
- ❑ Nurses: interactive and colored text UI with dialogues, scroll view, and page navigation

Duckietown

Dec 2020

*Self driving for Duckietown with Deep Deterministic Policy Gradient***Bubble Sheet OMR**

Jun 2019

Qt GUI program to do Optical Mark Recognition on bubble sheets

- ❑ Exports coordinates for automatic marking
- ❑ Semi-supervised automation

School Library Management System

May 2019

Qt GUI program for library administration

- ❑ Book categorization, borrow/return, mass import, barcode scanning, and overdue alert
- ❑ Object-oriented and separately compiled

Real Time Room Monitoring System

Apr 2019

LAMP stack web app for live monitoring of classroom statuses

- ❑ Tap-in and out with RFID cards
- ❑ Used in SPYC STEM Camp 2019 by students from 16 local schools

ALGOGENE Algo Crypto Trading Challenge 2022 (Global) <i>Probabilistic Approach on Price Movement Using Famous Indicators</i>	Jan 2023
Jane Street Electronic Trading Challenge 2022 (Hong Kong) <i>First runner-up</i>	Nov 2022
J.P. Morgan Code For Good 2022 Challenge (Hong Kong) <i>Developed for Junior Achievement Hong Kong, a job shadowing web app for secondary school students</i>	Nov 2022
The 6th InnoShow — Faculty of Engineering, The University of Hong Kong <i>Invited to showcase HackOS, an educational offensive cyber-security simulator</i>	May 2022
Cathay Pacific Hackathon 2021 <i>Developed a React Native app to display COVID-19 travel restrictions on an interactive world map</i>	Nov 2021
STEM Camp 2019 — Shatin Pui Ying College <i>Appointed Head of STEM Committee; Organized a day camp for visiting students from 16 primary schools</i>	Apr 2019
EE International Summer Camp 2017 — City University of Hong Kong <i>Runner-up in Mini Robotic Car Competition</i>	Summer 2017