

KWOK-LAM LEE

Highly-skilled and Self-motivated Computer Science Major
Seeking Challenging Internship

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📍 LONDON
HONG KONG

EXPERIENCE

- Mar 2021 — Aug 2021
Jul 2022 — Aug 2022
- Question Writer & Programmer** SHATIN PUI YING COLLEGE
- 📦 Programmed a domain-specific language (DSL) for WinMaths, an innovative e-learning platform featured on SING TAO DAILY, Hong Kong's oldest and second-largest Chinese newspaper
 - 📦 Authored Mathematics and Physics question templates in the DSL, generating mathematical typesets, tables, graphs, and 3D graphics
- Jun 2022 — Aug 2022
- Full Stack Developer** SHATIN PUI YING COLLEGE
- 📦 Delivered with Agile in weeks, an e-ticketing system catering a large and diverse user-base
 - 📦 Developed multiple web apps to automate various school's scheduling tasks
- Sep 2021 — Jun 2022
- Student Teaching Assistant** THE UNIVERSITY OF HONG KONG
- 📦 ENGG1340: advanced Python, C/C++, data structures, Linux shell, separate compilation
 - 📦 ENGG1330: Python, searching and sorting algorithms
 - 📦 Hosted weekly labs, and gave coursework feedback

EDUCATION

- Sep 2020 — Jun 2024
- Bachelor of Engineering in Computer Science** THE UNIVERSITY OF HONG KONG
- 📦 Pursuing Focus — Theoretical Computer Science
- Jan 2023 — Jun 2023
- International Exchange** ROYAL HOLLOWAY, UNIVERSITY OF LONDON
- Sep 2013 — Jun 2020
- Hong Kong Diploma of Secondary Education** SHATIN PUI YING COLLEGE
- 📦 First in ICT, Third in Physics

SKILLS

- Natural Languages Cantonese — native English — expert Mandarin — expert
- Programming Languages Python C/C++ C# Java Haskell JavaScript TypeScript SQL \LaTeX
- 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

PROJECTS

- Jan 2023 — Present **HolloRay**
External domain-specific language for 3D CAD with JavaFX & ART
- ⬡ Developed with Ambiguity Resolved Translators: *Translator generation using ART* by A Johnstone and E Scott at Royal Holloway, University of London
- Jan 2023 **lemuellee.com**
Personal Website, Portfolio, Blogging
- ⬡ Stack: SvelteKit with TypeScript, Tailwind CSS, KaTeX, Netlify
 - ⬡ Achieved an average of 97/100 in Google Lighthouse
- Dec 2022 **CIFAR10-HOG-PCA-SVM**
Image Classifier for CIFAR-10
- ⬡ Pure statistical approach with top 10% accuracy
 - ⬡ RBF SVM with HOG and PCA
- Oct 2022 **3230shell**
Linux shell
- ⬡ Features: command parsing, program execution, signals, background processes, piping and process statistics
- Oct 2022 **Enoch Bible Reading Challenge**
Full-stack reading challenge web app
- ⬡ Built as Progressive Single Page Application, instantly install-able on all major OSs
 - ⬡ Built with Vue.js, Tailwind CSS, Supabase, and Netlify
- May 2022 **HackOS**
Offensive cyber-security Unity game
- ⬡ Provides sandbox experience with replicas of nmap, ssh, hydra, and more
 - ⬡ Participating project of the HKU 6th InnoShow:
- May 2021 **RNA Fighter**
Retro-styled terminal game on COVID-19
- ⬡ Features: shop, currency, and leader-board
 - ⬡ Nurses: interactive and colored text UI with dialogues, scroll view, page navigation, and non-blocking input
- Dec 2020 **Duckietown**
Self driving for Duckietown with Deep Deterministic Policy Gradient
- Jun 2019 **Bubble Sheet OMR**
Qt GUI program for semi-supervised Optical Mark Recognition on bubble sheets
- May 2019 **School Library Management System**
Qt GUI program for library administration
- ⬡ Features: categorization, borrow/return, mass import, barcode scanning, and overdue alert
 - ⬡ Object-oriented and separately compiled

- Apr 2019 **Real Time Room Monitoring System**
LAMP stack web app for live monitoring of classroom statuses
- 📦 Tap-in and out with RFID cards
 - 📦 Used in [SPYC STEM Camp 2019](#) by hundreds of students

ACTIVITIES

- Jul 2022 — Jan 2023 **Algo Crypto Trading Challenge** ALGOGENE
Probabilistic Approach on Price Movement Using Famous Indicators
- Nov 2022 **Electronic Trading Challenge** JANE STREET
Competitive programming for high frequency electronic trading
- 📦 First runner-up
- Nov 2022 **Code For Good** J.P. MORGAN
Developed for Junior Achievement Hong Kong, a job shadowing web app
- May 2022 **The 6th Engineering Inno Show** THE UNIVERSITY OF HONG KONG
Invited to showcase HackOS
- Nov 2021 **Hackathon** CATHAY PACIFIC
Developed a React Native app to display COVID-19 travel restrictions on an interactive world map
- Sep 2018 — Apr 2019 **STEM Camp** SHATIN PUI YING COLLEGE
As head of STEM Committee, organized a day camp for visiting students from 16 schools
- 📦 Coordinated school staff, teachers, student helpers, and visiting schools
 - 📦 Designed a number of booths, games and experiments
 - 📦 Streamlined mission control with Google Sheets and an [in-house web app](#)
- Jul 2017 **EE International Summer Camp** CITY UNIVERSITY OF HONG KONG
Full-time taster camp for Electronic Engineering
- 📦 Runner-up in Mini Robotic Car Competition
 - 📦 Developed for an Arduino robotic car, an Android app for remote control via Bluetooth