

# 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

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## PROJECTS

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- 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

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## ACTIVITIES

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- 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