

# KWOK-LAM LEE

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

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📍 LONDON  
HONG KONG

## EXPERIENCE

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|--|--|-----------------------------|
| Mar 2021 — Aug 2021<br>Jul 2022 — Aug 2022 | <b>Question Writer &amp; Programmer</b>  | SHATIN PUI YING COLLEGE     |
|  | <ul style="list-style-type: none"><li>■ Programmed an internal domain-specific language MathTree based on JavaScript for WinMaths, an innovative e-learning platform featured on SING TAO DAILY, oldest Chinese newspaper in Hong Kong</li><li>■ Authored Mathematics and Physics questions in MathTree, generating mathematical typesets, tables, graphs, and 3D graphics</li></ul> |                             |
| Jun 2022 — Aug 2022                        | <b>Full Stack Developer</b>  | SHATIN PUI YING COLLEGE     |
|  | <ul style="list-style-type: none"><li>■ Delivered with Agile in 4 weeks, an e-ticketing system catering a large and diverse user-base</li><li>■ Developed multiple web apps to automate various school's scheduling tasks</li></ul>  |                             |
| Sep 2021 — Jun 2022                        | <b>Student Teaching Assistant</b>  | THE UNIVERSITY OF HONG KONG |
|  | <ul style="list-style-type: none"><li>■ ENGG1340: advanced Python, C/C++, data structures, Linux shell, separate compilation</li><li>■ ENGG1330: Python, searching and sorting algorithms</li><li>■ Hosted weekly labs, and gave coursework feedback</li></ul>   |                             |

## EDUCATION

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

## SKILLS

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|------------------------|--|
| Natural Languages      | Cantonese — native   English — expert   Mandarin — expert  |
| Programming Languages  | Python   C/C++   C#   Java   Haskell   JavaScript   TypeScript   SQL $\text{\LaTeX}$   |
| Frameworks & Libraries | Node.js   Express.js   jQuery   React   Vue.js   SvelteKit   Quasar   Tailwind-CSS   Flask   Qt<br>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 — A. Johnstone and E. Scott at RHUL
- Jan 2023    **LemuelLee.com**    —    Portfolio and blogging website
- Stack: SvelteKit with TypeScript, Tailwind CSS, and Netlify
  - Achieved 97/100 in Google Lighthouse
- Dec 2022    **CIFAR10-HOG-PCA-SVM**    —    Image Classifier
- Pure statistical approach with top 10% accuracy
  - RBF SVM with HOG and PCA
- Oct 2022    **3230shell**    —    Linux shell in C with process management
- Features: program execution, signals, background processes, piping and process statistics
- Oct 2022    **Enoch Bible Reading Challenge**    —    Full-stack reading challenge web app
- PWA & SPA, instant installation on all major OSs
  - Stack: Vue.js, Tailwind CSS, Supabase, and Netlify
- May 2022    **HackOS**    —    Offensive cyber-security Unity game
- Participating project of the HKU 6th InnoShow
  - Emulated Unix OS with GUI, shell, file-system, networking, and users
- May 2021    **RNA Fighter**    —    COVID-19 defusal game in Ncurses
- Non-blocking and colored text dialogues, scroll view, and page navigation
- Dec 2020    **Duckietown**    —    Self driving for Duckietown with Deep Deterministic Policy Gradient
- Jun 2019    **Bubble Sheet OMR**    —    Qt GUI program for semi-supervised OMR for classroom
- May 2019    **School Library Management System**    —    Qt GUI program for library administration
- Features: categorization, borrow/return, barcode scanning, and overdue alert
  - Object-oriented and separately compiled
- Apr 2019    **Real Time Room Monitoring System**    —    LAMP stack web app for monitoring classrooms
- 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	<b>Algo Crypto Trading Challenge</b> Probabilistic Approach on Price Movement Using Famous Indicators ■ Finalist with 530000% portfolio growth over 3 years of BTC market	ALGOGENE
Nov 2022	<b>Electronic Trading Challenge</b> Competitive programming for high frequency electronic trading ■ First runner-up in 17 teams	JANE STREET
Nov 2022	<b>Code For Good</b> Developed for JUNIOR ACHIEVEMENT HONG KONG, a job shadowing web app	J.P. MORGAN
May 2022	<b>The 6th Engineering Inno Show</b> Invited to showcase <a href="#">HackOS</a>	THE UNIVERSITY OF HONG KONG
Nov 2021	<b>Hackathon</b> Developed an informative React Native map app on COVID-19 travel restrictions	CATHAY PACIFIC
Sep 2018 — Apr 2019	<b>STEM Camp</b> Organized for students from 16 primary schools ■ As Head of STEM Committee, coordinated staff, teachers, student helpers, and visiting schools ■ Designed a number of booths, games and experiments ■ Streamlined mission control with Google Sheets and an <a href="#">in-house web app</a>	SHATIN PUI YING COLLEGE
Jul 2017	<b>EE International Summer Camp</b> 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	CITY UNIVERSITY OF HONG KONG