Kwok-Lam Lee

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

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Experience

Mar 2021 — Aug 2021
Jul 2022 — Aug 2022

Question Writer & Programmer — Shatin Pui Ying College

- ⊛ Authored Mathematics and Physics questions in MathTree, an internal JavaScript DSL for generating mathematical typesets, tables, graphs, and 3D graphics
- ⊛ MathTree runs on WinMaths, an innovative e-learning platform featured on Sing Tao Daily, oldest and second-largest Chinese newspaper in Hong Kong

Jun 2022 — Aug 2022

Full Stack Developer — Shatin Pui Ying College

- ○ Delivered with Agile in 4 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 — 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

○ 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 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 Linux DE with 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 with DDPG

Jun 2019 **Bubble Sheet OMR** . . . . Qt app for semi-supervised OMR for classroom

May 2019 **School Library Management System** . . . . Qt & SQL app for library administration

○ Features: categorization, borrow/return, and overdue alert
○ Object-oriented and separately compiled

Apr 2019 **Real Time Room Monitoring System** . . . . LAMP stack web app for monitoring classrooms

○ Used in SPYC STEM Camp 2019 by hundreds of students with RFID cards

ACTIVITIES

Jul 2022 — Jan 2023	**Algo Crypto Trading Challenge**	ALGOGENE

⊛ Finalist with 530000% portfolio growth over 2018—2020
○ Probabilistic Approach on Price Movement Using Famous Indicators

Nov 2022	**Electronic Trading Challenge**	JANE STREET

⊛ First runner-up in 17 teams

Nov 2022	**Code For Good**	J.P. MORGAN

○ Developed for JUNIOR ACHIEVEMENT, 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 an informative React Native map app on COVID-19 travel restrictions

Sep 2018 — Apr 2019	**STEM Camp — Chairman of STEM Committee**	SHATIN PUI YING COLLEGE

⊛ Coordinated staff, teachers, student helpers, and 16 visiting schools
○ Streamlined mission control with Google Sheets and an in-house web app

Jul 2017 — Aug 2017	**EE International Summer Camp**	CITY UNIVERSITY OF HONG KONG

⊛ Runner-up in Mini Robotic Car Competition