

Education

The University of Hong Kong | *Bachelor of Engineering*

Sep 2021-May 2025

- **Major:** Computer Science | **Minor:** Finance
- Awards: **Full Scholarship**
- **Roles:** HKU Student Ambassador, HKU Equal Opportunity Ambassador.
- **Highlight Courses:** Data Structures and Algorithms, OOP & Java, Computer Programming II in C/C++, Linux Systems and Shell Scripts, Discrete Mathematics, Full Stack Web-Development, Computer Architecture and Organization, Artificial Intelligence

Professional Experience

Move It Move It Limited, *Artificial Intelligence (AI) Engineer*

Dec 2022 – Jan 2022.

- **Developed custom datasets** for AI Model Training using real-life images processed through Roboflow with class-based annotations.
- **Seamlessly implemented AI** for furniture-detection using the **YoloV8 Algorithm** to train on custom datasets alongside model modification for version storage.
- **Integrated PyTorch along with Comet AI** to store experiment models and for version control of AI model to support fine-tuning and transfer learning.
- **Incorporated Nvidia Isaac Sim into the generation of synthetic data** to construct custom artificial datasets to fine-tune the training model with unusual scenarios and aid active learning of the AI.

LITRO International Limited, *Full Stack Developer*.

Jul 2022 – Aug 2022.

- **Built a RESTful API server and Database** using Flask, SQLite, SQL Alchemy, Jinja2, on Python for handling all backend services for websites, as well as for storing data and viewing as HTML pages in production environment.
- **Web Scraping Algorithm** for Facebook & Openrice using Python and required libraries with link to API server for database storage.
- **Applied OS, Flask App branching, and logging modules** from Python to create a **fully automated server** incorporated with a task-queue mechanism to store new user requests(jobs), and scrape data as per the requested jobs at regular intervals.

Key Direction Limited Consultancy, *IT Summer Intern*.

Jun 2022 – Jul 2022.

- **Data Analysis and Mining** for Singapore Railways LRT, to analyze maintenance of systems and handle maintenance data.
- **Automation Processes** to handle large data and filter to sequential storage files using Python and related libraries.
- **Website Development** for KDAS Limited using HTML, CSS, JS, Bootstrap and React and an interactive interface for client and host interactions.

Highlight Projects

GPAid Alpha HKU | *A guide to HKU Course Selection with AI-based GPA Estimation Service*

[Visit Git Repo](#) | [Watch Demo](#)

- **Utilized Web Scarping with API call interceptions** to extract course review and grade data from several websites to build a useful database.
- **Performed sentiment analysis** using Natural Language Processing with the Roberta Model along with nltk, huggingface transformers, and pandas data frame to produce positivity scores for student course reviews for each course.
- **Constructed a regression model with numpy**, along with matplotlib to generate a grade-review-sorting factor to be used to sort courses by order of best grades, by order of best student reviews, as well as provide GPA estimation using regression model extrapolation.
- **Capitalized React Native Chakra UI Library**, alongside ChartJs, react-paginate and ParticlesJs to develop an interactive, user-friendly UI.

Interview-Me | *A One-Stop app for interview preparation and portfolio management with AI screening and feedback*

[Visit Git Repo](#)

- **Architected an AI feedback system** to parse resume and cover letter texts and generate feedback; allow for multiple version storage.
- **Integrated a mock-interview interface** with a range of interview questions to allow for video recording and response storage using AWS S3, as well as provide personalized constructive advice on the video response, movement, and posture during response capture.
- **Fine-tuned AI Model to support portfolio management** for multiple job fields along with personalized AI generated responses, as well as developed a database of specialized interview preparation kit for user improvement.

Scrape-It | *A RESTful API Server for Facebook, Instagram, and Openrice scraping*.

[Visit Git Repo](#)

- **Developed a Flask App** using python, including selenium, chromedriver, pandas, lxml, BeautifulSoup and several python modules.
- **Incorporated Jinja2 with CSS, Bootstrap, JavaScript and HTML** to make an interactive server platform to handle user requests.
- **Built task-queue managers to connect backend to frontend** and take in user requests from frontend, and store in backend, as well as inspect backend queue for pending tasks and perform scraping in bulk at once to reduce server traffic.

Notable Awards and Activities

See More at: [My Web Portfolio](#)

Greater Bay Area FinTech Talent Initiative by Bloomberg | Selected among 400 candidates from across all universities in Hong Kong; received training and mentoring under Goldman Sachs.

Laidlaw Scholarship 2022-2023 | Selected among top 25 researchers from 2500+ applicants from top world universities (Oxford, Leeds, etc.).

HKU Foundation Scholarship, Full Tuition | Scholarship covering Full Tuition for the entire study period.

HKU Student Ambassador (since 2021) | Represent HKU at major events, attend school visits and social activities as a representative of HKU

Skills

Core: Python, JavaScript, Java, TypeScript, C, C++, Shell (Scripting), Linux/Unix

Web App and Database: React, Vue.JS, React Native, D3.JS | NodeJS and Express | SQL, MongoDB, ClickHouse, DBeaver.

Machine Learning and AI: Regression, Transfer Learning, Fine-Tuning, Computer Vision