

SmokingPuddle58

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🔄 smokingpuddle58

Summary

Fresh graduate from HKUST with a Bachelor of Science in Mathematics (Computer Science Track) (with Extended Major in Artificial Intelligence).

Proficient in Python, with experience in web development and database management. Willing to learn and adapt to new technologies and environments.

Technologies

Languages: C++, Python, TypeScript, JavaScript

Technologies / Tools: Linux (Bash), SQL, HTML & CSS, LaTeX, Microsoft Excel, Microsoft Word, Git, TensorFlow / PyTorch

Education

Hong Kong University of Science and Technology, BS in Mathematics (Computer Science Track) (with Extended Major in Artificial Intelligence) Sept 2021 – July 2025

Experience

Research Assistant, Hong Kong University of Science and Technology Sept 2025 – Current

- Worked closely with multi-disciplinary team members to develop scalable solutions that integrate with traffic simulation software
- Helped to maintain and adding new functionality for one of the project we were working on

Programmer Trainee, Wafer Systems (Asia) Limited June 2024 – Aug 2024

- Worked for the smart library system of the Hong Kong Public Libraries
- Performed several testings for the programs and webpages that will be used in Hong Kong Public Libraries
- Found more than 50 bugs in the systems and webpages, including security vulnerabilities
- Improved accessibility of the webpages with following the Web Content Accessibility Guidelines (WCAG) 2.2 standards

Student Helper, Hong Kong University of Science and Technology Sept 2024 – May 2025

- Helped more than 50 students to solve their problems in Mathematics courses
- Built communication skills and confidence through interacting with students

Projects (Selected)

Search Engines for Web and Enterprise Data [Link](#)

- Developed a user-friendly full-text search engine for the course project "Search Engines for Web and Enterprise Data"
- Applied various techniques and algorithms such as inverted indexing and PageRank to improve search accuracy and performance
- Responsible for the web crawler and indexer
- Obtained full mark for the project (Including bonus part)
- Main Tools Used: Python, Flask, BeautifulSoup, SQLite

Colorization for darkened B&W image 2024 Fall

- Developed a colorization algorithm for darkened black and white images for a course project
- Main Tools Used: Python, PyTorch, OpenCV, NumPy, YOLOv11

Personal Website

smokingpuddle58.github.io

- A trial of using HTML, CSS and JavaScript to build a personal website
- Rewriting with Astro framework with TypeScript and Tailwind CSS for better performance and for writing blogs
- Tools Used: HTML, CSS, JavaScript

Side Project: Bus ETA Discord bot

[Link](#)

- A side project for checking the estimated time of arrival of KMB buses
- Just for fun, but trained me on how to call APIs and use databases
- Deployed in a private Discord server
- Tools Used: Discord.py, Python, SQLite

Basic Information

Languages: English (Fluent), Mandarin (Native), Cantonese (Native)

Status: HKSAR Permanent Resident

Job-Related Questions

Date of Availability: Immediately available