

Farhan Yusuf Khan

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EXPERIENCE

Career Hackers

GenAI Software Developer Intern

Hong Kong
Jun 2025 – Aug 2025

- Contributed to developing an AI-powered recruitment platform, integrating LLMs and automation tools to deliver intelligent candidate assessment features.
- Designed and delivered onboarding workflows, feedback systems, and admin dashboards, improving user engagement and streamlining recruitment operations.
- Implemented secure data handling pipelines using AWS S3 and optimized user experiences through streamlined data management processes.

Teaching and Learning Innovation Centre, The University of Hong Kong

Student Research Assistant

Hong Kong
Mar 2024 – Apr 2025

- Gathered research data for 500+ participants using platforms such as Amazon MTurk and Cloudresearch
- Analyzed gathered datasets with Python technologies (Pandas, NumPy) and Database Management technologies (Excel), ensuring quality control to bolster research initiatives.
- Conducted product testing and documented bugs for web applications in the education technology field

Vidi Labs - Seekr

Technology Intern - Impact Lab

Hong Kong
Feb 2025 - Apr 2025

- Enhanced scene detection model through data collection and labeling.
- Utilized manual and automated techniques, including Python-based web scraping and image processing tools to retrieve over 30000 data points.
- Conducted in-depth research to support business initiatives.

Department of Computer Science, The University of Hong Kong

Student Teaching Assistant

Hong Kong
Sep 2023 - Nov 2023

- Led 2-hour weekly tutorial classes for the ENGG1330 Course (Introduction to Computer Programming), where I taught python programming and problem-solving.
- Provided comprehensive explanations and guidance regarding programming problems, fostering student growth.
- Maintained a positive learning environment and promptly addressed concerns.

PROJECTS

Parallelbot

May 2025

Implemented a **C** inference engine for transformer-based **LLMs** by parallelizing transformer operations with a reusable POSIX pthread thread pool.

- Utilized **pthreads**, **mutex locks**, and **condition variables** to implement a reusable thread pool for dynamic task assignment and synchronization across mat-vec and attention computations.
- **Parallelized matrix–vector multiplication** by partitioning rows among threads and **multi-head attention** by distributing heads, achieving concurrent execution without race conditions.

UniHaven – Student Accommodation Platform

Apr 2025

Developed a full-stack web application using **Django** to streamline student housing at HKU, following Agile methodology with iterative sprints and product backlogs.

- Implemented RESTful APIs with **Django REST Framework** for managing listings, reservations, and ratings; dynamically calculated geo-distances using government APIs.
- Designed a role-based access system for students and staff, supporting secure login, redirection flows, and permission-guarded actions.
- Followed **Agile principles**, executing sprint planning, backlog grooming, and continuous integration to ensure delivery of testable, incremental features.

EDUCATION

The University of Hong Kong, Hong Kong

Sep 2022 - Jun 2026

Bachelor of Engineering in Computer Science

- Recipient of HKU Belt and Road Scholarship
- **Relevant Coursework:** Applied Deep Learning, Artificial Intelligence, Machine Learning, Operating Systems, Data Structures and Algorithms, Data Science, Object Oriented Programming with Java, Database Management Systems,

ADDITIONAL SKILLS AND EXPERIENCE

Programming: Python, C, C++, JavaScript, Typescript, Java, R, HTML, CSS, SQL, PHP

Tools: Docker, AWS, Pytorch, sklearn, Matplotlib, Django, MySQL, MongoDB, ReactJS, Node.js