Farhan Yusuf Khan

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EDUCATION

The University of Hong Kong, Hong Kong — Sep 2022 - Jun 2026
Bachelor of Engineering in Computer Science — CGPA: 3.30

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

EXPERIENCE

Teaching and Learning Innovation Centre, The University of Hong Kong — Hong Kong
Student Research Assistant — Mar 2024 – Present

- 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 — Hong Kong
Technology Intern - Impact Lab — 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, integration of new technology, etc.

Radiance Tech International Ltd. — Hong Kong
Junior Programmer — Jun 2024 – Jul 2024

- Implemented dynamic movement and locomotion within a browser-based VR environment using Three.js, enhancing user engagement.
- Established seamless client-server communication in a browser-based streaming setup by leveraging Node.js and Typescript technologies.
- Identified and documented bugs for Unity and threejs applications through comprehensive testing procedures.

Department of Computer Science, The University of Hong Kong — Hong Kong
Student Teaching Assistant — 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

Flight Statistics Web Application — Mar 2024
Designed and developed a web application that retrieves and showcases passenger flight statistics from the Hong Kong Airport Open Data using REST web services.

- Utilized **JavaScript**, **PHP** and **AJAX** communication to fetch data from the REST web service and dynamically update the content.
- Made use of Open Data to gather relevant statistics and present total numbers of departure and arrival flights, unique destinations and origins, special cases, and histograms of flight distribution.

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.

ADDITIONAL SKILLS AND EXPERIENCE

Programming: Python, C, C++, JavaScript, Typescript, Java, R, HTML, CSS, SQL, PHP
Tools: Pytorch, Tensorflow, sklearn, Matplotlib, Django, MySQL, MongoDB, ReactJS, Node.js, Three.js, Express.js, Swing