

Farhan Yusuf Khan

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EDUCATION

The University of Hong Kong, Hong Kong
Bachelor of Engineering in Computer Science

Sep 2022 - Jun 2026
CGPA: 3.34

Sunnydale School, Dhaka

Cambridge GCE A Levels: 4A* in Further Mathematics, Mathematics, Physics, Chemistry

Jul 2019 - Jun 2021

EXPERIENCE

Teaching and Learning Innovation Centre, The University of Hong Kong

Student Research Assistant

Hong Kong
Mar 2024 – Present

- Accountable for gathering research data from platforms such as CloudResearch and Amazon MTurk
- Performed **data analysis** on the returned datasets typically consisting of around 400 responses while prioritizing **quality control** measures to support research endeavors.
- Other responsibilities include **product testing** for web applications and helping in other technical aspects.

Coxana Innovation Ltd

AI Prompt Engineer and Website Development Assistant

Hong Kong
Aug 2024 – Sep 2024

- Developed **dynamic** website features using **JavaScript** for the BeLeaf website, a platform designed to streamline access to diverse wellness services.
- Managed storage and retrieval of user data to support AI-driven contextual prompts
- Aided in the configuration of **chatbot** functionalities and UI interface for the DO AI platform, a platform built to help DSE Students with english writing.

Radiance Tech International Ltd.

Junior Programmer

Hong Kong
Jun 2024 – Jul 2024

- Utilized **Three.js** to incorporate dynamic movement and locomotion within a WebXR environment.
- Employed **Colyseus.js** and **TRTC Web SDK** to establish seamless client-server communication in a browser-based streaming setup.
- Conducted thorough testing to identify and document bugs and inconsistencies for applications.

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.

AWARDS AND ACHIEVEMENTS

HKU Belt and Road Scholarship

Full Scholarship Recipient HK\$ 171,000 per annum.

Sep 2022 - Jun 2026

Bangladesh Olympiad in Informatics

National Round Participant; Ranked 38th nationally.

Mar 2020

PROJECTS

Cathay World

A prototype metaverse utilizing Unreal Engine and connecting with Microsoft OpenAI as part of the Cathay Hackathon. My contributions include:

- Implementing and configuring the chatbot using the capabilities of **Microsoft Azure OpenAI**.
- Developing a website using **Flask** as the backend and **javascript** in the frontend.
- Use the backend to establish communication using **OpenAI API**, and relaying the response to the frontend using **HTTP Protocols**.

Flight Statistics Web Application

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** and **AJAX** communication to fetch data from the REST web service and dynamically update the content.
- Extracted relevant flight information from **JSON** datasets based on user-selected dates.
- 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.

Server-based TicTacToe game

Dec 2023

- Developed a server-based Tic Tac Toe game in **Java**, enabling multiple clients to play over a network.
- Designed and implemented server-side logic, **graphical user interface (GUI)**, and **client-server communication** for a seamless gameplay experience.
- Implemented **multithreading** to manage client **session control** efficiently, ensuring seamless operation and optimal performance.

SKILLS

- Relevant Coursework:** Machine Learning, Operating Systems, Data Structures and Algorithms, Data Science in R, Object Oriented Programming with Java, Database Management Systems, Discrete Mathematics
- Programming:** Python, C, C++, Java, R, HTML, CSS, JavaScript, SQL, PHP
- Tools:** Django, Pytorch, Matplotlib, Tensorflow, sklearn, MySQL, tidyverse, reactjs, nodejs, threejs, java.swing etc.