

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: 3.51
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 <i>Student Research Assistant</i>	Hong Kong Mar 2024 – Present
<ul style="list-style-type: none">Appointed as a part-time Student Research Assistant under Prof. Luke Fryer for TALIC HKUResponsibilities include product testing, helping in technical aspects and helping with software development.	
Department of Computer Science, The University of Hong Kong <i>Student Teaching Assistant</i>	Hong Kong Sep 2023 - Nov 2023
<ul style="list-style-type: none">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.	
Quantum Foundation <i>IT Intern</i>	Dhaka, Bangladesh Apr 2022 – Jul 2022
<ul style="list-style-type: none">Worked on backend development with Pyramid and assisted in resolving website bugs.Worked in formatting digital files using ffmpeg-pythonhelped implement multithreading to existing applications to improve performance and responsiveness.Contributed to backing up large file systems with Linux.	

AWARDS AND ACHIEVEMENTS

HKU Belt and Road Scholarship <i>Full Scholarship Recipient HK\$ 171,000 per annum.</i>	Sep 2022 - Jun 2026
Bangladesh International Olympiad in Informatics <i>National Round Participant; Ranked 38th nationally.</i>	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:	Nov 2023
<ul style="list-style-type: none">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.	
Web Chat Application PHP-based web chat platform that allows users to register, log in, and exchange real-time messages with other users. It is built using PHP , MySQL , JavaScript , and AJAX technologies.	Apr 2024
<ul style="list-style-type: none">User registration and login using ”@connect” email addresses.Real-time messaging in the chatroom and client side validation	
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.	Mar 2024
<ul style="list-style-type: none">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
<ul style="list-style-type: none">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.Documented the project and provided clear instructions for usage, demonstrating effective communication and attention to detail.	

SKILLS

- Relevant Coursework:** Data Structures and Algorithms, Data Science in R, Object Oriented Programming with Java, Computer Programming I/II
- Programming:** Python, C, C++, Java, R, HTML, CSS, JavaScript, SQL, PHP
- Tools:** Flask, Pyramid, Django, Pandas, Numpy, Scipy, Matplotlib, tidyverse, beautifulsoup, java.swing, C++ STL etc.