

# Ka Wai XU

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## Education

**The Chinese University of Hong Kong (CUHK)** 09/2023 – 07/2027

### B.Sc. in Computer Science

- Focus areas: Web development, full-stack applications, and software engineering
- Relevant coursework: Data structures, algorithms, software engineering, database design
- CGPA: 3.281/4.000

Vice-Director of Administration Department of ShawLane25, Shaw College 03/2025 – 10/2025

Director of Promotion Department of ShawLane24, Shaw College 03/2024 – 10/2024

Promotion Secretary The Resident Association of Student HostelII of Shaw College 02/2024 – 01/2025

## Work Experience

**Air Traffic Management Department, Civil Aviation Department** 07/2025 – 08/2025

### Technical Support Intern

- Automated performance analysis workflows in air traffic management by designing and deploying a VBA-based reporting system, reducing manual data processing time by over 70% and producing real-time charts and visual summaries for management review
- Developed an internal AI assistant (ICAO Chatbot) using Dify and Retrieval-Augmented Generation (RAG) to enable secure document retrieval and natural language query support across internal databases, cutting information search time by approximately 50% for technical staff

## Project

### Interactive Voting Platform – HTML/CSS, JavaScript, Bootstrap, Firebase

- Developed an engaging voting application featuring animated glow effects and real-time updates
- Implemented password-protected voting with mobile-responsive design for seamless user experience
- Utilized real-time data synchronization and interactive animations for enhanced engagement

### Digital Mahjong Scoreboard – Next.js, Vercel

- Built a digital scoreboard application for tracking scores, wins, and complete game history
- Implemented dealer tracking and automatic payout calculations to streamline game management
- Features persistent data storage and intuitive user interface for gaming groups

### Hong Kong Cultural Events Platform – React, Express.js, Vercel, MongoDB, Google Maps API

- Created a real-time platform showcasing cultural events across Hong Kong
- Integrated Google Maps API for location-based event discovery and visualization
- Designed interactive UI with responsive layout for desktop and mobile devices

## Extracurricular activities

**Gotta GO! Sustainable Explorer Challenge, Hong Kong Express** 02/2025 – 03/2025

### Participant

- Sustainability innovation challenge

## Technical Skills

**Languages:** JavaScript, Python, HTML/CSS, Java, SQL, C, Java, VBA, Ruby

**Database:** MongoDB, Oracle Database, MySQL

**Frameworks:** React, Node.js, Express.js, Next.js, RESTful APIs, Bootstrap

**Tools & Technologies:** Google Maps API, Git, GitHub, Firebase, Vercel, Dify, RAGflow, MS Office