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Education

The Chinese University of Hong Kong

09/2023– 07/2027(Expected)

B.Eng. in Computer Engineering (CENGN)

- Database Systems, Building Web Applications, Data Structures, Embedded Systems
- In Progress Course: Cyber Security, Machine Learning, Mobile Computing & Apps Dev
- Member of the 46th Cabinet of Computer Science Society

2023 DSE Result:

- Information and Communication Technology (ICT): Level 5
- Mathematics (Compulsory // Extended – Algebra and Calculus): Level 5* // Level 5*

Skills

- **Programming Languages:** C, C++, C#, Python, TypeScript, JavaScript, HTML/CSS
- **Frameworks:** Express.js, Discord.js, Node.js, Bootstrap, React.js, Vite
- **Technology:** Microsoft Azure, Mediapipe, Docker, Git
- **Database:** SQL, Supabase, PostgreSQL, MongoDB
- **Game Engine:** Godot, Unity
- **Embedded System:** SolidWorks, Arduino

Work Experience

Decatron Innovation Limited - Decatron Internship Program (Engineer)

6/2025-8/2025

- Prepared a course for 20+ academics on building private RAG systems using Ollama and Deepseek-R1. Successfully prototyped and demonstrated a hardware-integrated AI Voice Assistant on Unihiker M10 using Azure Speech Services for Text-to-Speech, Speech-to-Text functionalities, resulting in successful independent deployments by all participants.
- Leveraging TypeScript for block UI definitions and Python for backend logic to design and implement a series of third-party extensions in MindPlus for 20+ academics who don't have coding experience can develop by visual programming with MediaPipe, Tesseract.

Selective Projects

Pulse Detector – Arduino IDE

- Developed a heart rate measurement system using a Pulse Sensor with Arduino UNO and breadboard, programmed in Arduino IDE to process and display real-time heart rate data

Wordle Game – C

- A Wordle game was created using C programming
- Providing feedback on each guess using colored indicators: green for correct letters in the correct position, yellow for correct letters in the wrong position, and red for letters not in the word

DragonBid: Web Auction System for Gaming Group – Flask / Discord OAuth2 / Supabase / Vercel

- Engineered a full-stack auction automation platform hosted on Vercel for the Dragon Raja community using Flask and Supabase, integrating Discord OAuth2 for authenticating team members and implementing a logic-driven queuing system that autonomously executes purchases to optimize resource distribution and minimize player costs.

Greninja Fans Page – JavaScript / TypeScript / Bootstrap

- Including duration timer by TypeScript to record the time user has been on the page and Navbar logo hover animation by CSS

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Extracurricular Activities

District Cooling System Stem Workshop and Competition – First Category

- Using trinket.io to design an animation of district cooling system

PolyU NuttyShell CTF 2025 - Universities

CUHK CTF 2025 - CUHK Division

Certificate

Preventing Sexual Harassment on Campus (Training)

Kaggle: Python Course Certificate

Forge, Quantum Software Engineering Job Simulation

Kaggle: Intro to Machine Learning

FreeCodeCamp, Foundational C# with Microsoft

Gemini Certified University Student

25/01/2026 – 25/01/2029