Chan Cheuk Ka

An inquisitive learner and a critical thinker

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EDUCATION

2021 Sep - Present
Major – Bachelor of Engineering: Biomedical Engineering
The Chinese University of Hong Kong (CUHK)
- **cGPA: 3.688/4.0**
- Dean's list, Faculty of Engineering (2021-2022 & 2022-2023)
- Outstanding Achievement Award Scholarship, BME (2021-2022)

2024 Jan - 2024 Jun
Academic Exchange – Affiliate: Biochemical Engineering
University College London (UCL)
- **Average: 74.3%**

PROJECTS

2023 Feb - Present
Antibiotic Resistance Gene Detection Research Project
International Genetically Engineered Machine (iGEM) Competition 2024 – CUHK team: ResiSense
- Designing a **point-of-care kit** to detect antibiotic resistance genes in bacteria (superbugs) using RCA and G-quadruplex
- Engineered and measured DNA
- Cultured and transformed bacteria
- Building a **web framework** and the team website to introduce our project
- Producing, directing, writing, acting in, and editing a promotional video
- Interviewed and consulted various experts to gather insights
- Presented at a symposium

2023 Sep - 2023 Dec
Quadriplegic Computer Input System Course Project
Medical Instrumentation Design Course
- Designed and built a computer input system for quadriplegic patients using gyroscope mounted on a pair of goggles
- Averaged **13 words per minute**, **ranked 1st** in class

2023 Sep - 2023 Dec
Brain-Computer Interface Course Project
Neuroengineering Course
- Wrote an algorithm to interpret user intent by analysing ECG signals with only 4 probes
- Averaged **40% accuracy** given 4 bins, **ranked 2nd** in class

LEADERSHIP AND EXTRACURRICULAR ACTIVITIES

2022 Feb - 2023 Jan
Biomedical Engineering Society, CUHK
Secretary & Chung Chi College Representative
- Managed all internal documents of the society
- Handled all external communications
- Organised numerous academic-focused and student-focused events
- Illustrated **~50% of society materials**, including souvenir, social media promotion posts, and business card
- **Hosted** freshmen orientation day and camp and acted as group "parent"

SKILLS

Programming skills
- Typescript/JavaScript
  - Built a **web framework**
  - Published an **NPM package**
- HTML/CSS
- C#
- C/C++
- Python

Design skills
- Adobe Suite
  - Photoshop
  - Premiere Pro
  - After Effects
  - Illustrator
- Web design
- Blender
- Unity

Languages
- Chinese – Native
- English – CEFR: C1/Advanced

AWARDS

2021 - 2022 & 2022 - 2023
Dean's List Certificate
Awarded by CUHK Faculty of Engineering

2021 - 2022
Biomedical Engineering Outstanding Achievement Award & Scholarship
Awarded by CUHK Biomedical Engineering department

2019 - 2020
Hong Kong Biology Literacy Award *(Merit)*
Hosted by the *Hong Kong Association for Science and Mathematics Education*

2019
International Biology Olympiad (IBO) – Hong Kong Contest *(Bronze Award)*

2019
Computer App Programming Competition *(Bronze Prize)*
Hosted by the *Hong Kong Polytechnic University*