

# Ku, Bon Kwan

*Prospective mentality, a self-motivator, and a creative and persevering deep problem solver*

(852) 5596 9245 | kubonkwan99@gmail.com | Room 604, Ho Tim Hall, Shatin, NT, Hong Kong

## EDUCATION

**The Chinese University of Hong Kong (CUHK)**

*BSc in Physics*

• **GPA:** 3.183 / 4.000

**Hong Kong**

(Expected) Dec 2023

**UCSI University Pre-U Studies**

*Cambridge International A-Levels*

**Grades:** A in Physics and Mathematics, German A1, IELTS 7.5/9.0

**Kuala Lumpur, Malaysia**

June 2016 – Nov 2017

## PROJECTS

**Battleship Online (live: In Progress, repo: [simple-cv](#))**

Oct 2022 - Present

- Developed an online version of battleship using modern frameworks - Next.js and TypeScript
- Collaborated with an experienced full-stack developer to gain constant insights and feedbacks for code improvements with GitHub features
- Prevented exploits by managing game data with server-side authentication

**Interactive CV (live: [cvbono.netlify.app](#), repo: [simple-cv](#))**

Sep 2022

- Created a glass-morphism themed interactive and responsive resume website using React and framer-motion
- Focused on clean and reusable component factored coding style for convenient updates to contents
- Optimized loading time by converting assets to appropriate file types like webp

**Riot Games Client Login Screen Clone (live: [testers4bono.netlify.app](#), repo: [testers/riot-login-clone](#))**

Sep 2022

- Developed a functional registration and login authorization system connected to RDBMS(MySQL) database using React and Node.js
- Implemented custom responsive design and readily utilized React Hooks API
- Optimized performance by changing font loading method and continuously refactored code for better efficiency

## WORK EXPERIENCE

**Summer Undergraduate Research Internship Program**

**CUHK, Hong Kong**

*Computational Biomolecules (hydrogel)*

May 2022 – July 2022

- Simulated biophysical system with MARTINI force field and GROMACS to compare for compatibility of result under the supervision of Professor Wang Yi
- Awarded the best poster presentation prize amongst 18 other teams by the professors
- Utilized server-side simulation processing in LINUX-based OS and enhanced efficiency for the project by cooperating with a partner

**United States - Republic of Korea Combined Command Post Training**

**Yongin, Korea**

*English Linguist in the Combined Ground Component Command*

June – August 2021

- Engaged in US-ROK training as a real-time English linguist for the department of Hospitality and Personnel under deployment and translated strategically in-depth documents for both parties in clear technical wordings
- Awarded a token by the Eighth Army for excellence in performance during the training

## EXTRA-CURRICULAR ACTIVITIES

**Cathay Hackathon 2022 Shortlist**

**Hong Kong**

*UI/UX design & Frontend developer*

Nov 2022

- Designed and developed an AI integrated inflight service solution using Flutter and Firebase in linkage with Google Cloud Console API for prototype showcasing
- Qualified for the final rounds as top 20 teams amongst 100 participating teams with a pitching video of our solution

**PLANCKS 2022 Hong Kong Round 2nd Runner Up (International Physics Competition)**

**Hong Kong**

*Participant*

Mar 2022

- Solved 5/6 masters-level challenging physics questions in the Hong Kong preliminary rounds – in collaboration with 2 members from Hong Kong University of Science and Technology (HKUST)
- Acquired critical thinking power beyond textbooks by enforcing research paper comprehension, and experienced professional discussions with academically excellent peers

## ADDITIONAL INFORMATION

**Languages:** Native in English and Korean, Elementary proficiency in German

**Technical Skills:** HTML, CSS, JavaScript, React, TypeScript, Next.js, Node.js

**Interests:** Guitar, Digital Art, Gaming, Cooking, Futsal