Ku, Bon Kwan

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

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EDUCATION

The Chinese University of Hong Kong (CUHK)   **Hong Kong**
BSc in Physics   (Expected) Dec 2023
- **GPA:** 3.156 / 4.000

UCSI University Pre-U Studies   **Kuala Lumpur, Malaysia**
Cambridge International A-Levels   June 2016 – Nov 2017
Grades: A in Physics and Mathematics, German A1, IELTS 7.5/9.0

PROJECTS

Battleship Online (live: In Progress, repo:battleship)   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
- Managed codes using monorepo for scalability and prevented exploits with server-side authentication of game states

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 JWT authorization 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

Speakmanity Limited (Career Hackers)   **Science Park, Hong Kong**
Frontend Developer Intern   January 2023 – Present
- Developed the frontend for a web puzzle minigame built with Three.js using AWS, Vue.js & TypeScript for the HKSTP career event
- Designed the UI/UX for the game and the web using Figma with attention to mobile device priority

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

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 app using Figma, Flutter and Firebase 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, Vue, TypeScript, Next.js, Node.js, Figma
Interests: Guitar, Digital Art, Gaming, Cooking, Futsal