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:** 3.183 / 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
Activities: Junior Breakthrough Challenge 2016 Participant, Peer-to-Peer tutoring program

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

Republic of Korea Army (ROKA)   **Yeoncheon, Korea**
Mortar Squad Leader in the 28th Division   June 2020 – Dec 2021
- Supervised a 12-person squad in 23 field trainings under unpredictable and variating environments
- Prepared and reviewed confidential situation reports and operational briefs for officers

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

PROJECTS

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 and base64

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 utilized React Hooks API
- Optimized performance by changing font loading method and continuously refactoring code for better efficiency

Portfolio Website (live: bonoku.shop , repo: portfolio-1)   Aug 2022
- Developed a simplistic interactive website with vanilla Javascript
- Deployed in custom domain and improved crawlability by using semantic elements for enhanced SEO

EXTRA-CURRICULAR ACTIVITIES

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: Python, LabVIEW, LaTeX, HTML, CSS, JavaScript (React, Node.js)
Hobbies: Guitar (Acoustic, Electric), Digital Art, Gaming, Cooking, Futsal