

Jinsaul Kim

+44 7544330067 jinsaulkim@gmail.com <https://jinsaul.github.io>

OVERVIEW

I am a third-year MEng Computing student looking to use my coding and problem-solving skills to gain experience in the software development industry through this internship position.

HIGHER EDUCATION

Imperial College London
Computing MEng, Predicted 2:1

Oct 2021 - Present

PROJECTS

UNIVERSITY GROUP PROJECTS

- Gained experience in managing time and effectively communicating to work as a team.

Arm11 assembler and emulator

- Wrote a fetch-decode-execute cycle, recreated ARM instructions using C, and recreated the Arm11 processor state. Gained experience in collaboratively debugging code and distributing the workload among teammates to finish the project within time restrictions.

pintOS operating system features

- Implemented thread scheduling with priority donation, optimised memory utilisation through page swapping and sharing, and dynamic memory management. Took the role of project leader to make decisions and help teammates struggling with work.

WACC compiler

- Devised and created a lexer, parser, semantic analyser, and a code generator, making use of an abstract syntax tree to represent the structure of the input program. Learned how to propose potential solutions to a team and how to discuss the strengths and weaknesses of proposals.

Web app designed for real people

- Developed a user-centred website using ReactJS that allows users to plan and join community litter picking events. Gained experience in designing and developing for a stakeholder by carrying out prototyping, thin-slicing, and iterating on user feedback.

PERSONAL PROJECTS

- Created a workout scheduler with a GUI using the Win32 API(C++)
- Created a 2D game (Brick Breaker) using the Unity (C# Scripting) Engine
- Practices algorithms and data analysis in C++ on an online coding platform (acmicpc.net) to improve problem-solving skills

SKILLS AND ACHIEVEMENTS

PROGRAMMING LANGUAGES AND FRAMEWORKS

- Experienced in C, C++, C#, Java, Python, Scala, Haskell, SQL, Win32, Unity Engine, React

ACHIEVEMENTS IN MATHEMATICS

- UKMT Intermediate Maths Challenge 1x Full Marks, 5x Gold Award
- 2nd place in Gloucestershire Team Maths Competition

LANGUAGES

- Fluent in English and Korean, Intermediate in Japanese, Beginner in Mandarin and Spanish

INTERESTS

- Acts as a 'parent' in the department, to guide 1st year students into their school lives
- Duke of Edinburgh Bronze Award

WORK EXPERIENCE

Hankyeol Hospital
1 Month Placement

South Korea

Aug 2022

- Managed sanitary supplies, set up equipment for treatment, and assisted nurses. Learned to have confidence and take responsibility to meaningfully contribute to the workplace.

Abbeyfield Care Home
Porthaven Care Home

Gloucestershire, UK

Sep 2017 – Dec 2017

Sep 2019 – Jun 2020

Helper