MINJAE KANG

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EDUCATION

University College London (UCL), London, UK   Sep 2017 – Present
MEng Computer Science, third year
Completed Modules: Logic and Database Theory, Mathematics and Statistics, Computer Architecture and Concurrency, Software Engineering, Discrete Mathematics, Theories 1&2, Principle of Programming
Abbey College Cambridge, Cambridge, UK   Sep 2014 – Jun 2016
A-Levels**:** Mathematics (A*), Further Mathematics(Mechanics modules from M1 to M5) (A), Physics (A)

ENGINEERING PROJECTS

Software Development Project with Author Murray and Microsoft   Oct 2018 – April 2019
- Client-based team project; cooperated with Author Murray dance studio in the US and Microsoft UK and tailored technological and practical service to the client's needs.
- Led the team; analysed, broke down and allocated tasks based on capabilities with proper time management.
- Developed a web application using Express(based on Node.js) with functionalities e.g. uploading, feedback.
- Captured and collected movement data using Microsoft Kinect and stored them in MongoDB.
- Generated 3D dance simulation videos with Unity for accurate judgments.
- Hosting database and the application on Microsoft Azure.
- Liaised with clients in different time zones and coped with changing requirements under time pressure.

Maze Solving Robotic Challenge   Jan 2018 – Mar 2018
- Designed practical methods for a robot to find the shortest path to escape from a maze using C.
- Utilised theoretical knowledge learned in lectures to analyse and conquer this real-life challenge.
- Demonstrated collaboration skills and communication skills in order to divide the implementation of complex codes for different scenarios as a team and merge them back together.

Cross-department Bioreactor Team Project   Nov 2017 – Dec 2017
- Cooperated with engineers from other disciplines to build a bioreactor
- Coded an MSP Launchpad(microprocessor in C) with logics for measuring temperature, pH value, stirring rate.
- Led the team of three to write a programme, build an electric circuit and integrate with other components.

WORK EXPERIENCE

Summer Insight Programme with One-to-one Mentorship, Seoul, Korea   June 2019 – August 2019
- Received training weekly from an expert in the software solution development company Neodian Soft co.Ltd.
- Gained knowledge about the transforming world technology industry, latest trends, and revolutions.
- Enhanced my understanding on software development cycle e.g. set feasible requirements within budget and time.

Samsung Workshop, London, UK   Oct 2018
- Apprehended how a world-leading company like Samsung is preparing for the 4th Industrial Revolution and how it is exploring new industries such as autonomous vehicles.
- Learned the real-life daily routine at Samsung from current employees.

Chatbot Workshop, Seoul, Korea   Aug 2018
- Created and hosted a chatbot using Django, Pythonanywhere, and Kakao's API.
- Sent different responses according to specific text inputs and utilised nested dictionary data type to build hierarchy structure relation.

Python Web Crawling Programming, Seoul, Korea   July 2018 – Aug 2018
- Developed a web crawling application that accumulates data of CNN articles and stores them in a txt file using Python web crawling libraries, selenium and beautifulsoup4.
- Created a UI that enables inputting required data and shows the results using Python tkinter.

Private A-levels Physics Tutor, Seoul, Korea   June 2016 – August 2016
- Gave one-to-one teaching sessions 12 hours per week.
- Prepared all the teaching materials and handled admin tasks, for example, renting a classroom.
- Adapted different styles and approaches to improve students' results according to their strengths and weaknesses.

SKILLS

- **Programming Languages:** C, C++, Java, Python, JavaScript, Node.js, HTML, Haskell
- **Languages:** Korean (native),English (fluent),Chinese(beginner)
- **Interests:** Piano(self-taught), Gym, Movies, Games(rank Top 100 in StarCraft), Technology(UCL TechSoc)