

Sungwook, Kim

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Personalities

- Thinking about 'WHY?'
- Interested in Solving Problems and Making Things Efficient.
- Excited to Imaginating and Visualizing something.

Education

Mar.2019 ~ Aug. 2021 (30 monthes)	Hanyang University Undergraduate Course in Civil and Environmental Engineering <ul style="list-style-type: none">- GPA : 4.11/4.5 with 131 credits acquired.- Completed Major Classes such as Construction Management, CAD for Construction, Building Information Modeling, Structural Analysis and so on.- Completed Subjects such as Creative Programming for Engineers, Science Technologies for Sustainable Development, Basic Chinese and so on.	Seoul, Korea
Mar.2014 ~ Feb. 2016 (24 monthes)	Yonsei Univerity (Wonju Campus) Undergraduate Course in Physics <ul style="list-style-type: none">- GPA : 3.50/4.3 with 75 credits acquired.- Completed Major Classes such as Basic Electromagnetics, Modern Physics, Statistics, Calculus and so on.- Completed Subjects such as Leadership Development, Social Science and Social Welfare and so on.- Completed 4th Semester on Feb. 2016 and Withdrawn on Sep. 2018	Wonju, Gangwon-do, Korea

Experiences

Jul. 2023 - Jun. 2024	SSAFY (Samsung Software Academy For Youth) <u>Student</u> <ul style="list-style-type: none">- 10th Generation Trainee of Embedded Track.- Studied about Web Development such as HTML/CSS/JS, Vue.js, MySQL, Node.js, AWS.- Studied about Embedded Development such as C/C++, Linux Programming, Shell, and Raspberry pi.- Studied about Algorithm such as DFS/BFS, Dijkstra, Union-Find, MST, Dynamic Programming and so on.- Developed Projects with React.js, Next.js, Unity Engine- Studied about SCSS, Tailwind CSS, TypeScript	Seoul, Korea
May. 2022 ~ Jun. 2022	42 SEOUL (La Piscine, Pre-Course) <u>Pisciner</u> (A Trainee in Pre-Course) <ul style="list-style-type: none">- 2nd Piscine of 7th Generation.- Studied about Basic of C, Shell, MacOS and Computer Science.- Co-worked and solved problems with other pisciners.	Seoul, Korea
Oct. 2021 ~ Nov. 2021	Platom Inc. <u>Part Time Job Assistant</u> <p>Has participated in activities below.</p> <p>Developing Project of A KMO Educational Application named MO.</p> <ul style="list-style-type: none">- Writing a Flow Chart and Functional Specification.- Coworking with developers and web designers.- Making a Slogan for MO.- Planning functions and image-maps in website and application.	Seoul, Korea
Mar. 2020 ~ Sep. 2021	Intelligent Construction Technology Lab of Hanyang University (ICTLAB) <u>Researching Assistant</u> <p>Has participated in activities below.</p> <p>1. Researching project of Development of Smart Construction Technology hosted by ICT Center of Korea Expressway Corporation.</p> <ul style="list-style-type: none">- Development of S-cop (Control Platform for Construction Equipments based on BIM-GIS) and C-Map (Big-Data Navigation for Construction equipments).<ul style="list-style-type: none">• Construction equipment productivity analysis method using GPS Sensor.• Distinguishing Behaviors of Construction Equipments by Time-Position data from GPS.• Calculating filling and Cutting of Earth-volume in 3d Voxels.• Making a Path Planning Logic with XYZ position data of 3d Voxels.- Application Safety Management System with UWB Positioning System and Sensors to S-cop with Kyungwoo Systec.- Connecting with S-cop and Cloud E-BIM (A BIM Modeling Cloud Service) with DMCM.<ul style="list-style-type: none">• Lightening and Simplifying of BIM data for Cloud Service. <p>2. Providing BIM Construction Services for E&C Companies.</p> <ul style="list-style-type: none">- HDC, Incheon Yonghyun-Hakik re-development block (CITY-O-CIEL)<ul style="list-style-type: none">• 3D BIM earthwork modeling of roads and blocks by using Autodesk Civil 3d.• Installing GCPs and Aerial Surveying by using surveying drone and lazer scanner.• Production of Orthomosaic, Digital survey report and Pointclouds by using Pix4D and CloudCompare.• Providing Aerial Photograph and Videos of Construction Site taken by surveying drone.- Deukyoung E&C, International New City at Godeok, Pyeongtaek city.<ul style="list-style-type: none">• Providing Maching Guidance 3d Models (MG) of roads for Construction Equipments such as excavators by using Autodesk Civil 3d.• Installation of Positioning System by GPS Sensors for Machine Guidance.- Taeyoung E&C, Echo Delta City (EDC) in Busan.<ul style="list-style-type: none">• Providing 3D BIM model of Bridge by using Autodesk Civil 3d and Autodesk Revit.- HOBAN E&C - Reconstruction of Gaebong Residential Area 5<ul style="list-style-type: none">• Installing GCPs and Aerial Surveying by using surveying drone.• Production of Orthomosaic and Pointclouds by using Pix4D and CloudCompare.	Seoul, Korea

Projects

Hanyang University

- Analyzing Time and Position Data from GPS of Construction Equipments and Drawing a Graph of Probability Density Function about Behaviors of Equipments in Python and Excel.
- Designing Logic of Making route for Construction Equipments by GPS data and 3d Voxels.

WinAPI

- Making Crazy Arcade Game with C++/WinAPI
- Portfolio Video Link : https://youtu.be/EJj_PRnWfNE

SSAFY

Developing Auto-Follow-Driving-System with using Linux, Python, AWS IoT System, RC Car, Raspberrypi. (Group Project with 4 people.)

- MY Part : Developing Driving Control Part with using Python.
- PPT Presentation Link : https://github.com/WookeyKim95/RCCar_Following_Driving/blob/main/Embedded_RCCar_Project.pdf

Simulating Racing Game. (SSAFY RACE, Group Project with 3 people.)

- MY Part : Developing Driving Control and Avoiding Algorithm with using Python.
- Result : 1st Award on Speed Map and 2nd Award on SSAFY Map.

Developing Web Platform for Artists using Next.js. (Bon Voyage, Group Project with 6 people.)

- MY Part : Frontend Developer, Developing Login Session and so on.
- Github Repository Link : <https://github.com/WookeyKim95/BonVoyage>

Developing Cooking RPG and Tycoon Game using Unity Engine. (Michelin de Hanyang, Group Project with 6 people.)

- MY Part : Team Leader, Developing Game UI, Making UCC, Story, and Assets.
- Github Repository Link : <https://github.com/WookeyKim95/Michelin-de-Hanyang>

Developing Web Collabo-work Tool using React.js. (H-Up, Group Project with 6 people.)

- MY Part : Frontend Developer, Developing Real-time Co-editor.
- Project Notion Link : <https://tropical-manicure-529.notion.site/ReadMe-6a17a851a3444c3988d1ebf3e441ld54>

Club Activities

Sep. 2019 ~ Aug. 2021	IMS, Central Swimming Club of Hanyang University <ul style="list-style-type: none">A Member
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Awards and Certifications

Aug. 2021	Hanyang Award for Graduated with Summa cum laude <ul style="list-style-type: none">Award for Students who graduated with GPA above 4.00Graduation Ranking in department : 2
Apr. 2024	Prize of Samsung SW Academy For Youth <ul style="list-style-type: none">Metaverse Game TrackSpecialization Project Second Prize (Michelin de Hanyang)

Lectures Completed

Jan. 2022	Basic Web developing Course at FastCampus (K-Digital Credit) <ul style="list-style-type: none">Studied about HTML/CSS/JavaScript
Sep. 2020	Engineering Development Research Center (EDRC) of Seoul National University <ul style="list-style-type: none">Digital Transformation for Leaders

Language and Other skills

<ul style="list-style-type: none">LanguagesProgramming LanguagesComputer ProgramsMilitary ServiceInterestsHobbies	Native in Korean, Fluent in English Python (Pandas, Matplotlib), C/C++ (WinAPI, Linux, Unreal Engine), JavaScript(Node.js, Vue.js, React.js, Next.js), C#(Unity Engine) MS-Office(Word, Excel, Powerpoint), AutoCAD, Civil 3D, Pix4D, CloudCompare, Revit, Visual Studio, VSCode, Anaconda, Ubuntu, Vim ROKAF (Republic Of Korea Air Force): Apr. 2016 – Apr. 2018 3D Modeling, Programming, Algorithm Painting with a Tablet, Swimming
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