

Hangyul Yi

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EDUCATION

University of Calgary | Schulich School of Engineering, Bachelor of Science
Software Engineering

2026
Calgary, AB

EXPERIENCE

Web Developer, BMERIT

10/2023 – Present

- Maintained the team's website(<https://bmerit.web.app>) utilizing skills in **HTML**, **CSS**, and **JavaScript**
- Utilized **Firebase** for hosting, authentication, and database management
- Crafted and optimized responsive web layouts using **Figma** for various devices, enhancing user experience and increasing mobile engagement.

Calgary, AB

Microelectronics Technician, Escape Hour

06/2023 – Present

- Completed over 100 electronic assembly projects with high precision
- Troubleshoot computer interfaces for equipment, resolving technical issues for over 50 systems
- Leveraged **C++**, **Arduino** programming, **Flutter** to integrate interactive features into 20 custom electronic solutions, enhancing the immersive experience for escape room participants

Calgary, AB

KOR-ENG Translator, Voithru Inc.

05/2022 – Present

- Enhanced accuracy in interpreting audio transcripts by 30%, minimizing misinterpretations
- Ensured quality of 100+ projects with proofreading and syntax review for Multi-Channel Networks(MCN)

Seoul, South Korea

Video Timer, SubUP.io

06/2021 – 06/2022

- Optimized video localization efforts by processing videos and calibrating subtitles & timestamps with a 0.5-second margin of error, achieving 100% format accuracy
- Boosted customer satisfaction by 15% through improving translation accuracy

Seoul, South Korea

PROJECTS

Flower Image Classifier

- Developed a deep learning image classifier using **PyTorch**, VGG16 architecture and a dataset of 10,000 flower images
- Engineered **Python scripts** with customizable command-line training options via **argparse** module; enabled specification of directories, architecture, hyperparameters, and GPU usage.
- Implemented the **top-K predictions** method to provide the most probable flower classes, enabling users to see a range of potential labels
- Employed **Matplotlib** and **Seaborn** to create informative data visualizations such as bar graphs to display classification results

Handheld Retro Video Game Console

- Programmed a game featuring randomized falling objects using **C++**, **Arduino** technology and the TFT_eSPI header
- Designed a 3D casing for the project using **Fusion360**, resembling a retro arcade machine

Mini Indoor Garden

- Created **Arduino-based autonomous water system** to address specific moisture levels in soil, using **C++**, moisture sensor, and a water pump diminishing manual labor by 90%
- Utilized sustainable and recycled materials to construct a 100% recyclable product

EXTRACURRICULARS

Jr. Vice President Operations, DeepRacer Calgary

03/2023 – 04/2024

- Created **AWS DeepRacer** regulation compliant tracks and walls with precise measurements
- Streamlined race car resetting process by 25% through implementation of software and digital tools, increasing efficiency in the start line
- Trained racer cars using **AWS DeepRacer** interface and adjusting **hyperparameters** to address simulated-to-real(sim2real) performance gaps resulting in 80% better performance in races.

Calgary, AB

SKILLS

Languages:

C++, Python, HTML/CSS, Java, Swift, C, JavaScript, TypeScript

Technologies/Framework:

PyTorch, React, MJML, Next.js