

Hangyul Yi

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EDUCATION

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

Expected 2026
Calgary, AB

SKILLS

Languages:

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

Technologies/Frameworks:

Next.js, PyTorch, React, MJML, Express, Node.js

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

- Handle customers throughout games, determining if they required assistance
- 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 1000+ projects with proofreading and syntax review for Multi-Channel Networks(MCN)
- Maintained turnaround times, ensuring translations are provided promptly and on time

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

Club Monthly Newsletter

- Used **MJML** to generate responsive HTML newsletter templates for easy viewing on all platforms
- Developed **Python** scripts for automated sending of the newsletter using the **Google Sheets API** to keep a realtime list of recipients

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