Hangyul Yi

✉ hangyulyi3@gmail.com   📞 (587)226-8087   in @yihangyul   🔗 https://hangyulyi.com/

EDUCATION

Schulich School of Engineering | University of Calgary   Expected 2026   Calgary, AB
Software Engineering, Bachelor of Science
- **Relevant Coursework:** *Data Structures and Algorithms | Full Stack Web Development | Data Management | Object-Oriented Principles for Software Development*

SKILLS

Languages: C++, Python, HTML/CSS, JavaScript, TypeScript, Java, Dart, C
Technologies/Frameworks: Next.js, PyTorch, React, Flask, PostgreSQL, MJML, Node.js, Flutter
Tools: Git, Docker, Godot

EXPERIENCE

Lead Web Developer, *BMERIT*   10/2023 – Present   Calgary, AB
- Maintained the team's website ↗ 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.

Microelectronics Technician, *Escape Hour*   06/2023 – Present   Calgary, AB
- Soldered over 50 electronic assembly projects with high precision
- Troubleshot computer equipment, resolving technical issues for over 15 systems
- Leveraged **C++**, **Arduino** programming, **Flutter** to integrate interactive features into 20+ custom electronic solutions

PROJECTS

Flower Image Classifier ↗
- Developed a deep learning image classifier using **PyTorch** 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.
- Employed **Matplotlib** and **Seaborn** to create informative data visualizations such as bar graphs to display classification results

Transcript Extractor ↗
- Programmed a **Python** script to extract data from .srt, .xlsx (Excel) files into JSON files to create a database
- Implemented a search feature to look up and compare translations via the terminal

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 recepients

EXTRACURRICULARS

Vice President Operations, *DeepRacer Calgary*   03/2023 – 04/2024   Calgary, AB
- Created **AWS DeepRacer** autonomous car racing model training documentation
- Trained racer cars using AWS DeepRacer and adjusting hyperparameters to address simulated-to-real(*sim2real*) performance gaps resulting in 80% better race performance