Hangyul Yi

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EDUCATION

Schulich School of Engineering | University of Calgary Expected 2027
Software Engineering, Bachelor of Science Calgary, AB

- **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
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 **Next.js**, **TailwindCSS**
- Utilized **Firebase** for authentication, and database management
- Designed responsive web layouts using **Figma**, enhancing user experience

Microelectronics Tech, *Escape Hour* 06/2023 – Present
Calgary, AB

- Soldered over 50 electronic assembly projects
- 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

EXTRACURRICULARS

Vice President Operations, *DeepRacer Calgary* 03/2023 – 04/2024
Calgary, AB

- Created AWS DeepRacer autonomous car racing model training documentation and onboarding documentation
- Trained racer cars using **AWS DeepRacer** and adjusting hyperparameters to address simulated-to-real(*sim2real*) performance gaps resulting in 80% better performance