Hangyul Yi

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EDUCATION

University of Calgary | Schulich School of Engineering, *Bachelor of Science*　　　　2026
Software Engineering (Diversity Champions Scholarship)　　　　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　　Calgary, AB
- Utilized Firebase for hosting, authentication, and database management
- Designed responsive web layouts for responsive experience across various devices and screen sizes

Microelectronics Technician, *Escape Hour*　　　06/2023 — Present
- Completed over 100 electronic assembly projects with high precision and attention to detail　　Calgary, AB
- Troubleshot computer interfaces for equipment, resolving technical issues for over 50 systems
- Leveraged C++, Arduino programming to integrate interactive features into 20 custom electronic solutions, enhancing the immersive experience for escape room participants

KOR-ENG Translator, *Voithru Inc.*　　　05/2022 — Present
- Enhanced accuracy in interpreting audio transcripts by 30%, minimizing misinterpretations　　Seoul, South Korea
- Ensured quality of 100+ projects with proofreading and syntax review for Multi-Channel Networks(MCN)
- Maintained strict confidentiality in handling sensitive and confidential information during translation

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　　Seoul, South Korea
- Boosted customer satisfaction by 15% through improving translation accuracy

PROJECTS

Flower Image Classifier
- Developed a deep learning image classifier using PyTorch, VGG16 architecture and a dataset of 10,000 flower images
- Designed Python scripts with command-line training options using argparse module to specify 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
- Increased user retention by 30% by implementing a points reward system, creating a more immersive gaming experience
- 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

Communications Team Member, *BMERIT*　　　10/2023 — Present
- Collaborated with club leadership to create communication strategies, ensuring consistent branding　　Calgary, AB
- Designed promotional materials, including posters, flyers, and graphics to promote club initiatives

Jr. Vice President Operations, *DeepRacer Calgary*　　　03/2023 — Present
- Created AWS DeepRacer regulation compliant tracks and walls with precise measurements　　Calgary, AB
- Streamlined race car resetting process by 25% through implementation of software and digital tools, increasing efficiency in the start line
- Coordinated personnel to time racers and update leaderboard to ensure accuracy and timeliness

Translator, *Team Subbits*　　　02/2020 — Present
- Boosted accuracy of timed and translated captions by 30% by generating transcriptions with Whisper　　Seoul, South Korea
- Synchronized chat logs to enhance viewing experience by reflecting real-time activity

SKILLS

Languages:
C++, Python, HTML/CSS, Swift, C, JavaScript, TypeScript

Technologies/Framework:
PyTorch, React, Next.js