Ngo Van **Canh**

SAMSUNG R&D CENTER VIETNAM (SRV) · SOFTWARE ENGINEER

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"Choose a job you love, and you will never have to work a day in your life."

Overview

- Electronics and Telecommunication Engineering student with over 5 years of programming experience in both software and hardware development projects.

- Proficient in C, C++, Python and Lua, with expertise in industry-standard tools like CMake, Git, and Docker.

- Member of AICS Lab, contributing to several AI projects including "Document skew correction", "English grammar correction" and "Optical Character Recognition".

- Authored an IEEE paper on "A novel deep learning based method for Vietnamese ID card skew correction".

Education

Hanoi University of Science and Technology (HUST)   *Hanoi, Vietnam*

B.S. IN ELECTRONICS AND TELECOMMUNICATION ENGINEERING (UNDERGRADUATE)   *Mar. 2019 - Aug. 2024*

School of Electrical and Electronic Engineering

Skills

Programming Languages	C, C++, Python, Lua
Hardware Description Languages	Verilog
Development Tools	Docker, Git, CMake
Document Typesetting	Latex
Back-end framework	Flask
Front-end framework	Gradio
Deep learning frameworks	Pytorch, NCNN
Languages	English, Vietnamese

Experience

Samsung R&D Center Vietnam   *Hanoi, Vietnam*

C/C++ DEVELOPER INTERN   *Jul. 2023 - Aug. 2023*

- Trained about various algorithms in C++, ranging from basic to advanced.
- Collaboratively developed a mini console based game in C++.

Publications

CONFERENCE PROCEEDINGS

Vo Le Cuong, Nguyen Phuong Huy, Ngo Van Canh, Do Duy Thai, Nguyen Sy Duy, Vo Sy Hung. "A novel deep learning based method for Vietnamese ID card skew correction". 2024.

Certificates

2023	**Modern Project Management in ICT**, Prof. Dr. Harald Wehnes
2023	**Samsung Software Internship Program**, Samsung R&D Center Vietnam (SRV)

Extracurricular Activity

AICS LAB (Artificial Intelligence Convolutional System Laboratory) *Hanoi, Vietnam*
Core Member *Aug. 2023 - Present*
- Gained knowledge about Marchine Learning, Deep Learning, Computer Vision, AI for smartphone, AI for FPGA
- Participated on several AI related projects namely ID card skew correction, Document-Table skew correction, Optical Character Recognition
- Proposed a method for skew estimation and correction specifically for Vietnamese ID cards.

Hanoi University of Science and Technology *Hanoi, Vietnam*
Teaching Assistant (Digital Design using VHDL) *Oct. 2023 - Jan. 2024*
- Gained in-depth knowledge about Hardware Description Language (HDL), Field Programmable Gate Array (FPGA)
- Improve English communications skills

Projects

Home Security Alarm
Electrical and Electronic Engineering Introduction *Apr. 2020 - Jun. 2020*
- Introduced to arduino
- Learn how managing a project, working as a team and making a presentation.

Student Management System
C/C++ Programming Language *Apr. 2021 - May. 2021*
- Build a simple Student Management System
- Learn about C and C++ programming : pointers, class, variable types,…

Bank Management System
Data Structures and Algorithms *May. 2022 - Jun. 2022*
- Build a simple Terminal-based Bank Management System
- Learn about Data Structures and Algorithms

RISC-SPM
Digital Design using VHDL *Jan. 2023 - Mar. 2023*
- Design a RISC Stored-Program Machine Using Verilog HDL.
- Gained knowledge about CPU, hardware description language.

Audio Spectrum Visualizer
Micro Processor *Jan. 2023 - Mar. 2023*
- Design a Audio Spectrum Visualizer on a STM32 cortex m3 chip.
- Gained knowledge about embedded programming, CPU.

ID card detection using deep learning for eKYC products
Design Project 2 *Jan. 2023 - Mar. 2023*
- Learned about Android development.
- Gained knowledge about Image Processing.

Grammar Error Correction using deep learning web app
Graduation Project *Jan. 2024 - today*
- Learning about Web development.
- Gained knowledge about Natural Language Processing