Hoàng Thái Sơn

Embedded Software Engineer

📞 0838671831 屋 hthaison17@gmail.com 🙋 facebook.com/son.hoangthai.7549 🗣 48 Thị An, Hòa Quý, Ngũ Hành Sơn, Đà Nẵng

OBJECTIVE

- Working in a dynamic and professional environment of the company
- Challenging myself in a dynamic and highly competitive environment to become stronger and fully commit to my passion.
- Enhancing my personal value to keep up with emerging technology trends and create greater value over time.

EDUCATION

University of Science and Technology - The University of Danang.

2019 - 2023

Faculty of Information Technology

Major: Information Systems

I have graduated with an excellent engineering degree

SKILLS

Foregin Language	English
Workflow	Agile, Scrum, Waterfall.
Soft Skill	Analytical and problem-simplifying skills. Skills in connecting, communicating, and aligning the team toward a common goal. Ability to self-learn, adapt to, and effectively apply new technologies.
	AI application skills in professional settings to improve performance.
Technology	 Programming Languages: More than 1 year of experience with C/C++, Python, and C#. Familiar with Shell Script, Delphi, Oracle Sql and Cloud. Knowledgeable in modern C++, design patterns, Data Structures & Algorithms, and the Standard Template Library (STL). Familiar with setting up environments for AI model training and inference. Intermediate knowledge of Computer Vision and Natural Language Processing (NLP). Familiar with frameworks such as TensorFlow, PyTorch, Scikit-learn, and OpenCV for building and
	training AI models. • Experience with Embedded Linux and RTOS, as well as working with MCUs, I2C, SPI, and UART. • Experienced in building chatbot systems. • Experience with website development, including e-commerce and ERP systems, using MVC and RESTful APIs. • Familiar with containerization and deployment using Docker.

WORK EXPERIENCE

FPT Software Nov/2023 - Now

Position: C/C++ Developer

Main Skills: C/C++, Shell, Oracle SQL, QT Framework, Linux.

I work at GPE.EDS, This is a unit specializing in embedded system solutions. Here, I take on the role of a software developer, primarily using C/C++ to develop software solutions. I participate in migration, upgrade, and production processes for automation systems and embedded devices

K.System Mar/2023 - May/2023

Position: Fresher .NET Developer

Main Skills: .NET, VBScript, C#, SQL Server

K.System specializes in providing ERP solutions tailored for businesses from Korea.

Here, I have the opportunity to work directly with clients. My responsibilities include analyzing customer requirements and implementing ERP modules to meet their needs. Additionally, I ensure that the deployed systems operate accurately

IOTLink Oct/2022 - Feb/2023

Position: Intern .NET

Main Skills: .NET, ABP FrameWork, MongoDB

IOTLink IOTLink is a science and technology enterprise that has successfully developed the ONLY 4D digital map platform in Vietnam.

PROJECT

CAMPATH-TU1

(Apr/2025 - Now)

Name of customer	Murata Machinery	
Description Project	Worked as a developer in a language migration project from Delphi to C# for industrial machine applications. Rewrote the codebase from scratch while ensuring alignment with the original system's logic and features. Took part in identifying legacy bugs, implementing fixes, and suggesting functional and performance improvements	
Team size	7 members	
Position	C# developer	
Responsibility in project	 Migrated legacy applications from Delphi to C# while preserving original logic and features. Write a basic design based on the old source and the new requirements from the customer. Identified bugs in the old system and proposed technical improvements. Collaborated with team members to ensure functional accuracy and code quality. 	
Received from the project Enhanced proficiency in C# and gained hands-on experience with legacy Delphi code. Improved skills in system analysis, problem-solving, and evaluating technical solutions. Strengthened ability to maintain feature parity while modernizing applications.		

JSCLC-TVS 2024

(Nov/2023 - Dec/2024)

Subject project	SCSK Corporation	
Description project	This is a migration project for a Japanese retail system. Our team ensures that the batch processing system operates accurately and efficiently in the new environment. Specifically, migrating from Solaris to the Red Hat 8.6 operating system.	
Team size	34 members	
Position	C/C++ developer	
Responsibility in project	 Create documentation and test cases to ensure the new system functions correctly Perform testing, debugging, and issue resolution in the new environment, while optimizing performance in both source code and SQL queries. Responsible for managing socket communication between different modules of a larger system 	
Knowledge of Linux, Oracle SQL, C/C++, Shell scripts, GDB, Gitlab, Jira, SVN, MacCmake, Development and maintenance following the Scrum process Experience developing tools to improve project efficiency using VBA script and Pyth		

NAGASE-NEWTON

(Dec/2024 - Mar/2025)

Name of customer	NAGASE & CO., LTD	
Description Project	The project requires migrating the operating system from Solaris to Red Hat 9.0 and switching the compiler from CC to g++. We ensure the system processes data accurately and optimizes performance in the new environment. Additionally, we develop additional features based on the partner's requirements	
Team size	12 members	
My position	SubLead/ C++ developer	
Responsibility in project	 Create documentation and test cases to ensure the new system functions correctly Perform testing, debugging, and issue resolution in the new environment, while optimizing performance in both source code and SQL queries. Support product packaging and communicate with customers through a bridge engineer. 	
Received from the project	 Knowledge of Oracle SQL, Linux, C+++, GDB, Jira, RedHat and Design Patterns. Teamwork skills, especially in team management. 	

DESIGNING A SELF-DRIVING CAR WITH AI TECHNOLOGY

(Mar/2023 - Jul/2023)

Capston Project	Information Technology Faculty	
Desciption project	The project involves implementing an autonomous driving system for vehicles and robots. It utilizes sensors and cameras to gather information about the surrounding environment. The AI system processes this data and makes decisions to guide the robot to a designated location.	
Team size	1	
Position	Leader	
Responsibility in project	 Conducted analysis and design of a system comprising electrical design, circuit development, mechanical structure, and AI model implementation Collected and cleaned sensor data from real-world environments by Ultrasonic, GPS, camera, and trained AI models for environmental awareness and mobility control Image processing techniques, using neural networks for image analysis Performed optimization of algorithms, hardware circuits, and data pipelines to ensure real-time system performance 	
Technology Stack	 Languages: Python, C++ RTOS (real-time operating system) -FreeRTOS, Linux, UART, SPI/I2C HybridNets:End2end perception network, OpenCV Hardware: Using Raspberry Pi, STM32,IP Camera, Sensor, Step Motor 	

SIGN LANGUAGE INTERPRETATION

(Mar/2024 - Sep/2024)

Customer	Myself	
Description project	2024This project was developed to create a platform for utilizing microprocessors like the Jetson Nano in image processing and AI. It features a chatbot running in an environment set up on the Jetson Nano, enabling users to chat via Telegram for automated laptop trading, including buying and selling	
Team size	2	
Position	Leader, Developer Python and C++.	
Responsibility in project	Artificial Intelligence, Natural Language Processing, and optimized image processing techniques on the Linux environment of the Nvidia Jetson module	

	 Processed visual data with MediaPipe Hands to detect hand landmarks and annotate datasets for model training. Find a suitable partner that aligns with long-term development
Technologies	 Hardware: Jetson Nano Kit, IP Camera BackEnd: Python, C++, YOLO, OpenCV Database: MongoDB

CERTIFICATION

Building Video AI Applications at the Edge on Jetson Nano	2024
Engineering Degree, Da Nang University of Science and Technology	2024

ACTIVITIES

Danang Astronomy Club Jul 2021 - Now

Leadership & Team Alignment:

I ensure that every team member works towards a shared vision, maximizing both individual and collective success.

Training & Skill Development:

Conduct engaging astronomy training sessions to spark curiosity and deepen understanding.

Provide hands-on workshops on essential soft skills, including presentation, research, and AI applications in both professional and everyday life.

Teamwork & Collaboration: My core mission is to cultivate a dynamic, supportive environment where teamwork thrives and innovation flourishes

INTERESTS

I simply want to put in my best effort with my direction and passion. A bit of music, football, or cooking helps me relax and brings excellent work results

ADDITIONAL INFORMATION

Not afraid of difficulties, just afraid of not doing

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