Thanh Tung VU

End of study internship - Quantum Developer

I am eager to leverage my academic background and programming skills to contribute to the advancements in the field of quantum computing. I am seeking a Quantum Developer intern where I can apply my knowledge and dedication to solving complex problems and driving innovation in quantum technologies.

CONTACT

- @vuthanhtung2412
- 0753298405
- vuthanhtung2016hn@gmail.com
- @thanh-tung-vu-2016hn/
- vuthanhtung2412.github.io/

SKILLS

Technical skills :

Python
Qiskit
C++
CUDA
Git
Numpy
Matplotlib
Linux

AI/ML tools:

Pytorch
Tensorflow

ACTIVITIES

Video editor of Vietnamese Association in Rennes 2020 - 2022

LANGUAGES

English : Fluent (C1)
French : Business proficiency (B2)
Vietnamese : Mother tongue

PROFESSIONAL EXPERIENCES

INSA de Rennes, Rennes, France

Reasearch Intern   07/2023 - 09/2023

- Developed a **Qt application** for experiment control and data analytics.
- Achieved synchronization at the order of **10ns** by interfacing **Python** code with **FPGA machines.**
- Designed pulse sequence to conduct **ODMR experiment** in order to study quantum phenomena of **center NV defects.**

ARMOR Group, Nantes, Pays de la Loire, France

DevOps Intern   06/2022 - 08/2022

- Deployed mock servers to test jobs on **10 different scheduling** tools and made comparisons.
- Deployed a **preprod server** for **Rundeck** and verified the proof of concept.
- Studied a new **logging convention (RFC5424)** and adapted the enterprise application to this new convention.
- Tested **5 monitoring tools** with Docker, compared to propose the best one.

EDUCATION

L'Institut national des sciences appliquées de Rennes

Rennes, France   09/2019 - 09/2024

Ingénieur Informatique BAC +5 (Major : Clouds)

- **Notable subjects :** POO & design pattern, Data base, Algorithms and Data structures, Data Analytics, Stochastic process, High Performance Computing.

L'Institut supérieur coréen des sciences et technologies (KAIST)

Daejeon, Corée du Sud   02/2023 - 06/2023

Exchange program

- **Average :** 92 / 100
- **Notable subjects :** **Quantum Information**, Graph ML, Reinforcement Learning

Highschool for the gifted Hanoï-Amsterdam (Specialization : Physics)

Hanoï, Vietnam   09/2016 - 09/2019

- **Average :** 9.0 / 10

PROJECTS

Implementation Style Transfer with GNN   05/2023

- Implemented the code for the paper "Learning Graph Neural Networks for Image Style Transfer" with **Pytorch**.
- Enhanced the model with **pyramid feature extraction.**

3DCNN + Attention mechanism   05/2023

- Built a light-weighted **3DCNN + Attention model** with **Pytorch.**
- Conducted ablation studies on different configurations of the model.

CERTIFICATS

Spark and Python for Big Data with PySpark | Udemy   08/2022

SQL Advanced | HackerRank   08/2022

Quantum Mechanics (Polytechnique) | Coursera   11/2022

COMPETITIONS

- Finalist Cod'INSA 2023