

# Quy Le

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## SUMMARY

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Highly motivated Computing and Electrical Engineering young mind with demonstrated proficiency in Python, C++, and Git. Experienced in agile team collaboration and delivering impactful projects in data science and AI/ML. Enthusiastic about contributing to dynamic work environments and continuously learn new skills to drive success.

## EDUCATION

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### Tampere University

Tampere, Finland

*B.Sc. in Computing and Electrical Engineering, CGPA: 4.86/5.00*

*August 2024 - May 2027*

- Major in Machine Learning and Signal Processing & Software Development. Minor in Mathematics.
- Relevant courses: Introduction to **Programming (Python)**, **Programming Techniques (C++)**, **Data Structures and Algorithms**, **Software Engineering**, Version Control, **Data Analysis** with Python.

## EXPERIENCE

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### Tampere University

Tampere, Finland

*Research Trainee, Predictive Society and Data Analytics Lab*

*Jan 2025 - Now*

- Research project: Physics-Informed Neural Networks (PINNs): Parameters estimation of dynamical systems using **Deep Learning**, under supervision of Prof. Frank Emmert-Streib.
- Implement PINNs in **Python** and **PyTorch** to solve differential equations to simulate physical phenomena.

### PiMA Mathematics Research Summer Camp

Ho Chi Minh City, Vietnam

*Student Researcher*

*July - August 2024*

- Researched on different key optimization methods for **Linear Programming** problems.
- Led a team of 4 to produce a **23-page long report** about the Interior Point Method and implemented the algorithm from scratch in **Python**. [📄 Github](#).

### Abbott

Ho Chi Minh City, Vietnam

*STEM Intern, Customer Relationship Management Team*

*July 2023*

- Preprocessed over 80,000 data points of e-commerce sales transaction from company's **Salesforce** CRM database.
- Developed and deployed regression models to forecast sales trends for Q4 2023, achieved a 35% improvement in RMSE from the baseline regressor.
- Built insightful dynamic dashboards using **PowerBI** to track annual sales trends across 5 main products.

## TECHNICAL PROJECTS

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### Thermal Energy Storage Charging Phase Modeling via Deep Learning

*Dec 2024 - Now*

- Solve coupled PDEs for fluid-solid heat transfer during charging phase using PyTorch model. [📄 Github](#).
- Visualized 2D temperature field with Matplotlib for validation.

### MediCopter: Automatic drone for medical supply delivery

*April - December 2023*

- Built Python programs to automatically control the drone during flight and send data back to the computer using DroneKit library and Firebase. [📄 Github](#).
- Trained an obstacle detection model using MobileNetSSD by TensorflowLite and deployed on Raspberry Pi 4.

## ACHIEVEMENTS AND AWARDS

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- **Awardee**, Tampere University Full-tuition Scholarship for students with excellent academic & motivation.
- **4th Prize** Ho Chi Minh City Informatics for Youth 2024, solved **3 algorithmic problems** in C++ in 3 hours.

## TECHNICAL SKILLS

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**Programming Languages:** Python, C++, SQL, MATLAB

**Libraries and Frameworks:** Pandas, NumPy, Matplotlib, Scikit-learn, PyTorch

**Tools and Software:** Jupyter Notebooks, Git, Excel, PowerBI

## CERTIFICATIONS

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- **IBM Data Science Professional Certificate**, 2024
- **DeepLearning.AI Machine Learning Specialization**, 2024
- **DeepLearning.AI Deep Learning Specialization**, 2025

## EXTRACURRICULAR ACTIVITIES

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- **Finisher**, Aalto-Espoo Half-marathon, finish my first half-marathon ever in Finland - Sep 2024
- **KeyOps Volunteer**, Junction Hackathon, manage facilities for participants - Nov 2024