

# Nguyen Le

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## Selected Articles

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- **Finding and Fighting the Lazy Unlearner: An Adversarial Approach** ([Details](#) 📄): Investigated a failure mode of RMU unlearning where models collapse to a single “lazy” direction that encodes evasion (extension of my thesis). I show how to find that direction, analyze its semantic composition with Sparse Autoencoders (SAEs), quantify its causal effect, and propose an adversarial regularizer to force more robust unlearning.
- **Residual Stream is Key to Transformer Interpretability** ([Details](#) 📄): A technical note and explanation for [A Mathematical Framework for Transformer Circuits](#) 📄 paper.
- **PRML for Viet** ([Website](#) 🌐): An attempt to provide a resource/reference for Vietnamese student to learn about Machine Learning in general and learn Pattern Recognition and Machine Learning book in specific.

## Education

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- **VNUHCM - University of Science, Viet Nam** | Oct 2021 - Oct 2025 | Bachelor of Science | Major in Artificial Intelligence | **GPA:** 8.5/10 (3.4/4).

## Experience

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- **VinBigdata - Ha Noi, Viet Nam** | July 2025 - Current | AI Engineer.
- **Gameloft Vietnam - Ho Chi Minh, Viet Nam** | November 2024 - March 2025 | C++ Game Programmer Intern | Implemented and shipped new 2 UI features for Asphalt 8 (VIP UI, Gacha system UI), contributing to a game with over 100M downloads.
- **Bosch Global Software Technologies Vietnam - Ho Chi Minh, Viet Nam** ([Details](#) 📄) | August 2024 - November 2024 | AI Engineer Intern | Developed a full-stack RAG application, featuring a VSCode extension front-end and a FastAPI/Langchain back-end, to automate fuzz test generation for C source code.

## Selected Projects

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- **gemm\_metal** ([Github](#) 📄): Achieved 421 GFLOPS ( $\approx 17\%$  peak GFLOPS of M2 chip) by optimizing shared memory access with 2D tiling block and SIMD Group. This represents a  $\approx 3x$  performance increase over a naive baseline (171 GFLOPS). **Tech stack:** C++17, Metal (Apple’s GPU).
- **banhxeo** ([Github](#) 📄): A simple NLP library built with Python and Jax/Flax. Implement NLP models (RNN, MLP, etc.) and Tokenizer system from scratch.
- **yamc** ([Details](#) 📄): Developed a simple neural network from scratch with simple custom matrix operations in C++ to classify MNIST, CIFAR-10, etc. datasets. Architecture supports configurable layers (Convolution, Dropout, Linear, etc.).

## Skills

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**Programming Languages:** C++, Python | **System Programming:** OpenGL, Metal, CUDA, Triton | **Frameworks:** PyTorch, Jax | **Tools:** Git, Unix Shell, Docker, Latex, CMake.

## Languages

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**English:** Professional working proficiency | *TOEIC Reading & Listening:* 870/990, *TOEIC Speaking & Writing:* 320/400, [Details](#) 📄.