HIEU **LE**

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EDUCATION

Institut Polytechnique de Paris Sep 2023 – now, France

Master in Distributed Systems and Parallel Computing.

Relevant Coursework: Operating Systems, High Performance Runtime, Cloud Infrastructure

École Polytechnique Sep 2020 – Jun 2023, France

Bachelor of Science in Mathematics and Computer Science.

Graduated **Summa Cum Laude**.

Relevant Coursework: Compiler, Machine Learning, Computer Architecture, Design and Analysis of Algorithms

EXPERIENCE

Software Engineer Intern, **Datadog** Mar – Sep 2025, Paris

- Develop multiple state-of-the-art **data partitioning** methods for **Event Storage System**
- Achieve **70-80%** data pruning rate for daily queries
- Implement the project in **Go** and **Java**

Research Intern, **LIX** Jan – Mar 2023, Paris

- Generalize cutting plane algorithms to solve multi-level problems.
- Implement a **Python** version of the algorithm using **pyomo** and **glpk** solver.
- Come up with and prove various new theorems related to multi-level programming.
- **A+** Bachelor thesis.

Software Engineer Intern, **IMC Trading** Jun – Sep 2022, Amsterdam

- Used both **Java** and **Python** in the Java Strategy Team on a project using **Graal VM** in order to allow users to use **Python** script to interact with our Java program. I also worked with the Vaadin framework while integrating my project to the UI.
- Worked with multi-threading code, as well as many performance and memory optimization tasks.

AWARDS

Third place, Computational Geometry: Solving Hard Optimization Problem Competition 2023

Got 3rd place out of 22 teams including Master, PhD students and professors from around the world.

Silver medal, Vietnam National Olympiad in Mathematics 2019

Got in top 48 participants with the highest score among more than 500 participants.

PUBLICATIONS

Le Duc Hieu, Jürgen Spilker, Luu Ba Thang, "The Greatest Common Divisor of Shifted Fibonacci",

Journal of Integer Sequences, 25:22.1.7, 2022

Contains many new results about the greatest common divisors of Shifted Fibonacci Sequence.

PROJECTS

Map Reduce System 2024

- **Map Reduce System** from scratch
- Memory and performance optimizations