

# Nguyễn Văn Lộc (Nguyen Van Loc) | Student

## University of Science, Vietnam National University Ho Chi Minh City

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📁 [github.com/vanloc1808](https://github.com/vanloc1808)



## Education

Program	Institution/Board	GPA	Year
<i>Bachelor</i> (Information Technology)	University of Science, Vietnam National University Ho Chi Minh City Ho Chi Minh City, Vietnam	<b>8.89/10</b> (current)	2020 - now

## Knowledge

- Data Structures and Algorithms
- Databases
- Computer Networks
- Combinatorics
- Probability and Statistics
- Linear Algebra

## Technical Skills

- Programming Techniques
- Object-Oriented Programming
- Socket Programming
- Programming Languages: C, C++, Python, R
- Web Technologies: HTML, CSS, JavaScript (basic)
- Database System: Microsoft SQL Server
- Operating Systems: Windows, Linux (Ubuntu, Kubuntu)
- Jupyter Notebook
- Tools:  $\text{\LaTeX}$ , Anaconda, Microsoft Office

## Course Projects

### *PC Control via Email*

May - June 2022  
HCMUS

- A socket application (server - client) that allows users to control their PCs in a LAN via email.
- Language: Python.
- Role: Socket Programmer, Tester.
- Projects for Computer Networks.
- GitHub link: <https://github.com/vanloc1808/HCMUS-Computer-Networks-Projects/tree/main/Socket-Email>

### *Favorite Place*

May 2022  
HCMUS

- A socket client — server application for managing favorite places.
- GUI uses **tkinter** library.
- Language: Python.
- Role: Client Developer and GUI Designer.
- Projects for Computer Networks.

- GitHub link: <https://github.com/vanloc1808/HCMUS-Computer-Networks-Projects/tree/main/Socket-Place>

### **Research about Hidden Markov Model**

**April - May 2022**

*HCMUS*

- A project for researching about Hidden Markov Model, includes: its theory, implementaion and application.
- Language:  $\text{\LaTeX}$  and Python with Jupyter Notebook.
- Role: Theory researcher, collaborative implementer.
- Projects for Applied Mathematics and Statistics.
- GitHub link: <https://github.com/vanloc1808/HCMUS-Applied-Maths-and-Statistics-Projects/tree/main/Project-2>

### **Simple Data Description and Prediction**

**March - April 2022**

*HCMUS*

- A project for data description and data prediction on a small set of data.
- Language: Python with Jupyter Notebook.
- Role: Collaborative Participant.
- Projects for Applied Mathematics and Statistics.
- GitHub link: <https://github.com/vanloc1808/HCMUS-Applied-Maths-and-Statistics-Projects/tree/main/Project-1>

### **Simple Chess Game**

**October - December 2021**

*HCMUS*

- A chess game implemented with the basic concepts of object-oriented programming.
- GUI uses **SFML library**.
- Language: C++.
- Role: Main Developer.
- Projects for Object-Oriented Programming.
- GitHub link: <https://github.com/vanloc1808/HCMUS-OOP-Project-ChessGame>

### **Search Engine**

**June 2021**

*HCMUS*

- Search a string in a variety of text files, using TF/IDF.
- Language: C++.
- Role: Collaborative Developer.
- Projects for Arts of Programming.
- GitHub link: <https://github.com/vanloc1808/HCMUS-AP-Project-SearchEngine>

### **Big Integers**

**May 2021**

*HCMUS*

- Implemented arithmetic and logic operations on big integers, 128 bits or more.
- Language: C++
- Role: Collaborative Developer
- Projects for Arts of Programming
- GitHub link: <https://github.com/mekanican/BigInteger>

## **Online Courses**

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- Coursera:
  - [Python for Data Science, AI & Developmente](#) (June 2022),
  - [Data Science Methodology](#) (June 2022),
  - [Tools for Data Science](#) (March 2022),
  - [What is Data Science?](#) (March 2022),
  - [HTML, CSS, and Javascript for Web Developers](#) (March 2022),
  - [Algorithmic Toolbox](#) (February 2022),
  - [Introduction to Git and GitHub](#) (February 2022),
  - [Writing in the Sciences](#) (September 2021)

## Achievements/Awards

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- Competed in the [The 2021 ICPC Vietnam Southern Provincial Programming Contest](#), team HCMUS-PenguinSpammers, rank 252 over more than 500 teams (2021).
- Competed in the [The 2022 Shopee Code League](#) (2022).
- Languages (Spoken/known): Vietnamese (Native speaker), English (IELTS 7.0 - 2019).