

# Ngoc Bui

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## SUMMARY

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- Good in Python, C++. Familiar with Java, Typescripts.
- Good in data structures and algorithms.
- Research interests: Natural language processing (NLP), Operation Research (OR).

## EDUCATION

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- **B.S. Computer Science**  
Hanoi University of Science and Technology (HUST)  
CGPA: 3.64/4  
2016 – now

## EXPERIENCE

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- **Teaching Assistant - Applied Algorithms - HUST**  
Assisting the teacher in building lecture materials, instructing students in practice classes. I also built a Source-code Similarity System to detect programming plagiarism cheating in competitive contests.  
*August 2019 to January 2021*
- **Research Assistant - DSLAB - HUST**  
Studying the Vietnamese address standardization problem in NLP. I developed a log-linear model combining the results of two main approaches: fuzzy matching and named entity recognition.  
*December 2019 to June 2020*
- **AI Research Intern - IBM Vietnam**  
Applying PowerAI Vision to visual inspection problem in the car manufacturing process. This project aims to detect dirt, dust defects in car body after painting.  
*July 2019 to October 2019*

## AWARDS & HONORS

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- Problem Winner in ASEAN-India Hackathon  
2021
- The Third prize (Top 50) in ACM/ICPC Asia Ho Chi Minh Regional  
2017

- The Third prize in Vietnam National Olympiad in Informatics  
2016
- Silver Medal in Hung Vuong olympic summer camp for excellent students of Northern gifted high schools  
2014, 2015
- Consolation prize in the Competition for excellent students of major high schools in the Northern delta and Coastal areas  
2015

## PROJECTS

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- **GeneticPython**  
[github.com/ngocjr7/geneticpython](https://github.com/ngocjr7/geneticpython)  
A simple and friendly Python framework for genetic-based algorithms.  
2020
- **SCOSS**  
[github.com/ngocjr7/scoss](https://github.com/ngocjr7/scoss)  
A Source Code Similarity System  
2020 – 2021
- **Conmato**  
[ngocjr7/codeforces-management-tools](https://github.com/ngocjr7/codeforces-management-tools)  
A command line interfaces (CLI) to manage Codeforces' groups  
2020
- **BCB\_VOSY**  
[github.com/ngocjr7/voting-blockchain](https://github.com/ngocjr7/voting-blockchain)  
A simple blockchain-based Voting System application from scratch.  
2018

## PUBLICATIONS

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- Bui, Hong-Ngoc, and Viet-Trung Tran. "A Novel Conditional Random Fields Aided Fuzzy Matching in Vietnamese Address Standardization." In Proceedings of the Tenth International Symposium on Information and Communication Technology, pp. 23-28. 2019.

## ACTIVITIES

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- Training high school students data structure and algorithm in Hung Vuong gifted high school.