

# HO DUC HIEU

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## EDUCATION

### Seoul National University

South Korea

Department of Computer Science and Engineering, College of Engineering

- Major: Computer Science and Engineering
- Seoul National University Global Talent Full Scholarship

### HUS High School for Gifted Students, Vietnam National University

Vietnam

Gifted class in Informatics

Sep. 2016 – Jun. 2019

- GPA: 9.3/10
- Merit-based Scholarship for Excellent Students in all semesters; Outstanding Young Face Awards; Rector Awards for Outstanding Academic Excellence in three years; Award of Merit from the Minister of Ministry of Education and Training; Award of Merit from the Rector of Vietnam National University; Award of Merit from the Rector of Hanoi University of Science; PonyChung Foundation Scholarship by Hyundai Development Company for Vietnamese talents; AI Scholarships from Intel and Facebook Artificial Intelligence.

## AWARDS

- Bronze medal of Best Potential Award in the 2019 Asia-Pacific Youth Labor Trend Forum
- Gold medal in the Global Youth Leaders Summit 2019: Transforming Vision into Action through Social Innovation
- Outstanding Award in the Belt And Road Global Youth Leaders Summit 2019
- First prize in the Vietnam National Student Science and Engineering Fair 2017-2018 in the field of Systems Software
- Third prize in the Vietnam National University, Hanoi's Informatics Olympiad
- Bronze medal in the HSGS's Informatics Olympiad
- Silver medal in the Hanoi Math Contest

## PUBLICATION

- First author, "Technical research of detection algorithmically generated malicious domain names using machine learning methods", *Journal of Science and Technology on Information Security*, vol. 7, pp. 37-43, 2018

## WORKING EXPERIENCE

### Open Source Education Bot, Facebook

Remote Work

Core Maintainer

Jun. 2020 – present

- Build out a Messenger open source training bot for Developer Circles under guidance and mentorship from Facebook
- Collaborate with Facebook engineers to maintain the project, review pull requests, and manage issues
- Support and participate in Open Source Immersion initiative run by Facebook

### Institute of Mathematics, Vietnam Academy of Science and Technology

Hanoi, Vietnam

Student Researcher

Jun. 2020 – present

Advisor: Assoc. Prof. Dr. Phan Thanh An

Project: Aircraft Type Recognition Based on Convex Hull and Machine Learning Models

- Received a research grant to work as a student researcher under the supervision of Associate Professor Phan Thanh An and conduct research on computational geometry and machine learning
- Hosted 4 scientific seminars on computational geometry and participated in graduate classes on convex optimization
- Scholar of International Graduate Summer School 2020, accumulated knowledge on analysis, linear programming, algebra, optimization and practical for modelling

### 2020 MOST GASE Taiwan Global Talent Internship Program Artificial Intelligence

Taipei, Taiwan

Virtual internship

Jun. 2020 – present

Supervisor: Professor Jacky Baltes

- Got selected by Ministry of Science and Technology, Taiwan to take a research internship under the supervision of Distinguished Professor Jacky Baltes from National Taiwan Normal University
- Participate in all online activities including Orientation, Featured Speech: Artificial Intelligence and Green Tech, Mandarin & Culture Course A, Cultural Experience and complete 6 weekly work logs

### Cinnamon AI Labs

Hanoi, Vietnam

Internship

Jan. 2018 – Jun. 2018

- Awarded Intelligence Fellows Program scholarship to join and complete an intensive AI training program focusing on natural language processing and image processing by Cinnamon AI engineers and 2 AI expert lecturers
- Accumulated knowledge on computer vision, semantic segmentation, object recognition, lexical analysis, information retrieval, name entity recognition, deep learning for text processing

### Viettel Cyber Security, Viettel Group

Hanoi, Vietnam

Internship

Aug. 2017 – Dec. 2017

- Researched on machine learning to build an application in detecting wide-area botnet based on domain name resolution data of network operator for early detecting DDoS attacks
- Deployed system for detecting malicious domain names using Python with 98% accuracy on 2,000,000 domain names by using machine learning and deep learning

## ACTIVITIES

**2<sup>nd</sup> Vietnam - Taiwan Training and Scientific Research Workshop** by the Ministry of Education of Taiwan and National Tshing Hua University  
**Nha Trang, Vietnam**

*Scholar*

2020

- Accumulated knowledge of the concepts and applications of structural biology, bioinformatics to diseases and frontier biotechnologies to investigate infectious and non-communicable diseases

**Asia-Pacific Youth Labor Trend Forum 2019** by the Taiwan Ministry of Labor

**Taipei, Taiwan**

*Delegate* 2019

- Collaborated with 70 youth representatives from different countries and discussed the topic of youth competency development, future jobs, new technology, women labor and social enterprise
- Implemented and presented a technology solution for economic globalization employment issues

**ASEAN Communications and Preparations of ASEAN Chairmanship 2020**

**Hanoi, Vietnam**

*Delegate* 2019

- Discussed ideas on the top priorities of the ASEAN Socio-Cultural Community in 2020 and Vietnam's 2020 ASEAN Chairmanship

**Google Developer Student Club Lead Summit 2019** by Google Asia Pacific

**Kuala Lumpur, Malaysia**

*Delegate* 2019

- Participated in several workshops to learn vital technical, problem solving, and leadership skills from Googlers and industry experts

**Global Youth Leaders Summit 2019: Transforming VISION into ACTION through SOCIAL INNOVATION** by The Hong Kong Polytechnic University  
**Hong Kong**

*The only Vietnamese Delegate*

2019

- Collaborated with over 120 youth leaders from 30 countries to generate cross-border projects on quality education, poverty alleviation, and sustainable community
- Completed training workshops from world-renowned speakers on leadership vision, creative design thinking, social innovation and community engagement
- Presented a proposal to resolve current global and social challenges on quality education by technology

**Belt and Road Global Youth Leaders Summit 2019** by Peking University and The Hong Kong Polytechnic University

**Beijing, China**

*The only Vietnamese Delegate*

2019

- The extension summit of Global Youth Leaders Summit 2019 in Hong Kong focusing more on innovation, responsibility and development

**High School for Gifted Students**

**Hanoi, Vietnam**

- Co-leader of HSGS Code Camp - Prepared materials and lesson plan to teach fundamental informatics for 6 classes of 300 students
- Designed an online graphical interface for several 2D math puzzles with React and won 2<sup>nd</sup> place at HSGS Hackathon
- Presented my research at the 3rd Workshop on Future creators in science held by VNU University of Science and Kyushu University

## COMMUNITY ACTIVITIES

**Developer Student Club by Google Developers**

**Hanoi, Vietnam**

*Chapter Leader*

Jul. 2019 – Jul. 2020

- Hosted workshops and study jams on latest technologies
- Facilitated and helped students learn machine learning as facilitator of Explore Machine Learning by Learn with Google AI | Explore Machine Learning

**Google Code-in, Google Open Source**

**Remote Work**

*Contributor & Mentor*

2017– 2020

- Mentored pre-university students to learn and work on an open source project and real software; worked closely with administrator of Sustainable Computing Research Lab in Google Code-in 2019
- Contributed to open source software completing 29 tasks as part of Google Code-in 2018, got into top 20 highest scoring students, and rewarded Sustainable Computing Research Lab (SCoRe) Top Leaders
- Contributed to open source software completing 3 tasks as part of Google Code-in 2017

**Facebook Developer Circle: Hanoi**

**Hanoi, Vietnam**

*Core-team member*

Jan. 2018 – Sep. 2019

- Developed community for around 2000 developers to educate and provide a forum for discussion and knowledge sharing around topics that are top-of-mind for developers
- Organized 12 events with more than 1500 attendees such as workshops, training sessions, master classes, community challenges and algorithm club
- Established relationships with local startup and tech hubs to create pipeline of opportunities

**SheCodesVietnam**

**Hanoi, Vietnam**

*Deputy Executive Director | Director of Content development & Technology*

Jul. 2018 – Aug. 2019

- Advised team members on building a successful, creative and efficient hackathon model for targeted 300 female audiences and designed content for organizing 2 hackathons and 1 talkshow
- Developed website, created communication channels, and implemented internal tools
- Maintained good relationship with different partners including companies, guest speakers

## GirlScript Summer of Code, Girl Script India

Remote Work

Mentor

Feb. 2019 – May. 2019

- Awarded for outstanding mentor of The curriculum of Techtonica, a free tech training and job placement program for women and non-binary adults with low incomes
- Worked closely with project admin to guide and review contributions, and helped mentees take their first step in open source

## JUNCTIONxHanoi

Hanoi, Vietnam

Technical team member

Aug. 2018 – Dec. 2018

- Advised team members on building a successful hackathon for 266 contestants
- Developed website and created chatbot, prepared technology training material for members

## Hanoi AI Week, Vietnam Frontier Summit 2018, Vietnam Mobile Day 2018, Vietnam Web Summit

Organizer

2017 - 2019

- Organized some of the largest technology events in Vietnam for developers relating to mobile and web industry, AI, VR /AR, Blockchain for more than 2000 attendees and organizations in each event

## OTHER SKILLS

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**Languages** English: professional proficiency. Vietnamese: native. Korean: beginner.

**Online Courses** Computer Science by Harvard University; Machine Learning by Stanford University; IBM Data Science Professional Certificate; Blockchain by University at Buffalo & The State University of New York; Python for Everybody by University of Michigan; Effective Communication in the Globalised Workplace Specialization by National University of Singapore