

HO DUC HIEU

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EDUCATION

Seoul National University

Department of Computer Science and Engineering, College of Engineering

South Korea

Sep. 2020 - present

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

HUS High School for Gifted Students, Vietnam National University

Gifted class in Informatics

Vietnam

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

- Winner and Top 3 Outstanding Interns Award in the 2020 MOST GASE Taiwan Global Talent Internship Program
- 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

Core Maintainer

Remote Work

Jun. 2020 - Aug. 2020

- Built out a Messenger open source training bot for Developer Circles under guidance and mentorship from Facebook
- Collaborated with Facebook engineers to maintain the project, review pull requests, and manage issues
- Supported and participated in Open Source Immersion initiative run by Facebook
- Open Source: <https://github.com/fbdevelopercircles/open-source-edu-bot>

2020 MOST GASE Taiwan Global Talent Internship Program Artificial Intelligence and Green Technology

Research Intern

Taipei, Taiwan

Jun. 2020 - Aug. 2020

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
- Participated in all online activities including Orientation, Featured Speech: Artificial Intelligence and Green Tech, Mandarin & Culture Course A, Cultural Experience and completed 6 weekly work logs and a final report.
- Built and deployed a product that supports the Federation of International Sports Association RoboWorld Cup; completed all workshops and challenges of FIRA RoboWorld Cup; researched on reinforcement learning and humanoid robotics.

Institute of Mathematics, Vietnam Academy of Science and Technology

Student Researcher

Hanoi, Vietnam

Jun. 2020 - Aug. 2020

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 6 scientific seminars on computational geometry and participated in graduate classes on convex optimization

Cinnamon AI Labs

Internship

Hanoi, Vietnam

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

Internship

Hanoi, Vietnam

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

2nd Vietnam - Taiwan Training and Scientific Research Workshop by the Ministry of Education of Taiwan and National Tsing Hua University at Pasteur Institute **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 2nd 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

TECHNOLOGY COMMUNITIES

Microsoft Learn Student Ambassador **Seoul, South Korea**
Student Ambassador Aug. 2020 - present

- Learn Student Ambassadors are a global group of campus leaders who are eager to help fellow students, create robust tech communities and develop technical and career skills for the future.

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

Deputy Executive Director | Director of Content development & Technology

Hanoi, Vietnam

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

Mentor

Remote Work

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

Technical team member

Hanoi, Vietnam

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

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

Handbook Computer Science Handbook by Ho Duc Hieu