

# Thao Hoa Nguyen

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## Education

### Carleton University

Bachelor of Computer Science Honours, stream AI and Machine Learning

CGPA: 11.53/12 (A+) on Dean's Honour List

Ottawa, Ontario, Canada

Sep 2022 – Jan 2027 (Expected)

### FUNiX by FPT University (Online)

Bachelor in Software Engineering

Grade Point: 8.9/10

Hanoi, Vietnam

May 2021 – Jan 2025 (Expected)

## Skills

**Languages:** Python, Java, C/C++, JavaScript, HTML, Typescript, SQL

**Technologies:** Node.js, Express.js, CSS, Git, Linux, Android Studio, React, MySQL, PostgreSQL, NestJS, Qt, Figma

**Soft skills:** leadership, collaboration, time-management, creativity, adaptability

## Experience

### Software Engineer and Business Analyst Intern

KMS Solutions

Jun 2023 – Oct 2023

- Designed a comprehensive architecture for a course management system catering to more than 1000 users, aiming to increase the efficiency of grading processes and enhanced existing web features of user profile page
- Developed the user profile in course management system using NestJS with TypeScript, integrated with SQL database and refined the front-end features while completed debugging tasks

### Teaching Assistant

Carleton University

Sep 2023 – Present

- Conduct tutorial sessions alongside lab coordinators to assist over 300 students in the web development course while evaluating assignments and tests, offering detailed feedback
- Establish weekly office hours to support students in navigating course content and responding to inquiries

## Projects

### Nature Calls [🔗](#), winner in HackTheHill hackathon

Python, Ren'py, VSCode, Procreate

- Collaborated within a team to engage in the ideation and programming of a visual novel game focusing on enhancing awareness of the ecological crisis and led the presentation of the product to the panel of judges
- Employed Ren'Py scripts to control variables, visuals, sound, and mouse interactions

### Web Crawler and Search Engine , In Python [🔗](#) and In Java [🔗](#)

Python, Java, JavaFx

- Optimized the run time and space complexity through Big-O analysis during data generation from 3000 files processes and applied Breadth-First Search algorithm for efficient searching
- Developed a graphical user interface (GUI) application capable of conducting searches on a specified data set and presented top 10 relevant websites determined through rank calculations

### Blogger Thao Hoa [🔗](#)

HTML, CSS, Bootstrap, Javascript

- Built a website using the Bootstrap framework and deployed using FTP server
- Utilized SEO techniques for optimizing the website's search engine visibility and ranking

## Volunteer

### Co-President

VISA - Vietnamese International Student Association

Aug 2021 – Present

- Collaborate closely with the Embassy of Vietnam to organize community events and workshops for over 200 participants, including significant politicians from other ASEAN countries
- Connect Vietnamese students across all high schools and colleges to build a strong community, while holding forums to provide advice for newcomers and networking sessions to share experiences among colleagues

### UI/UX Web Designer and Content Creator

Healing ALS

Aug 2021 – Oct 2022

- Designed a webpage to promote events and raise awareness about ALS disease within the Vietnamese community

### Social Media Designer

Code Youth

Oct 2021 – May 2022

- Assisted in devising content and designing media posts by leveraging coding and IT expertise