

# Van Minh Ngai

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**Github:** VanMinhN

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## Education

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**University of Windsor**, Windsor, ON  
B.C.S. (Honours) in Computer Science

September 2017 - December 2021

- Cumulative Average: 84.68%
- Major Average: 86%
- Graduated with **Distinction**

## Work Experience

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**University of Windsor**, Windsor, ON  
Teaching Assistant

May 2020 - December 2021

- Assisted in managing the **Intro to Algorithms and Programming I** (Summer 2020), **Problem Solving and Information on the Internet** (Summer 2021), and **Key Concepts for End-Users** (Fall 2020, Winter 2021, and Fall 2021) classes for five different semesters
- Proctored examinations, and graded assignments and midterms for over 100 students
- Held lab sessions and mentored over 100 students on course materials, as well as helped students with code review during office hours

## Projects

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### Sort Visualizer

March 2022

- Applied **WinForms** and **C#** to develop a Window platform to experiment with sorting algorithms (Quick Sort, Bubble Sort, Heap Sort, Merge Sort) and visualize their operations.
- **Technologies Used:** WinForms, Visual Studio, C#.

### Check Weather

Jan 2022

- Used **HTML5/CSS**, **JavaScript**, and **OpenWeatherMap** API to develop a weather application with a dynamic background based on cities searched by using **Unsplash** API
- **Technologies Used:** HTML5/CSS, JavaScript, OpenWeatherMap API, and Unsplash API

### Autonomous Vehicle Simulation

December 2021

- Utilized **Unity3D** and **C#** programming language to simulate an autonomous vehicle with an emphasis on localization and environment detecting with **ray casting**
- Implemented **Artificial Intelligence** concepts such as neural networks and genetic algorithm
- **Technologies Used:** Unity3D, C#, Unity Raycast

### EighteenTech

July 2021

- Created a technology website using **HTML5/CSS**, **PHP**, **JavaScript**, and **MySQL** where users can give a rating on any technologies from Amazon, BestBuy, Newegg, etc.
- **Technologies Used:** HTML/CSS, PHP, JavaScript, Bootstrap, and MySQL as a backend database

### Active COVID-19 Clinical Trials Tracker

April 2020

- A cross-platform mobile app that tracks all active clinical trials related to the COVID-19 based on the official information from WHO (World Health Organization)
- Applied **Flutter framework** and **Google Maps API** to develop this mobile-app clinical trials tracker
- **Technologies Used:** Flutter framework, Google Maps API, Git, and Visual Studio Code

## Skills

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**Programming Languages:** Java, C#, C, HTML5, CSS, JavaScript, PHP, SQL

**Tools & Technologies:** Microsoft Studio, Visual Studio, Visual Studio Code, Git, GitHub, Unity3D, SCRUM development, Agile development

## Extracurriculars & Awards

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**Mary Fuller Scholarships**, University of Windsor  
**Dean's List**, University of Windsor

Feb 2020

May 2020