

# TUAN CUONG NGO

Centreville, VA

[ngoct@vt.edu](mailto:ngoct@vt.edu) | 434-227-6591 | [LinkedIn](#)

## Education

---

**VIRGINIA TECH** - Blacksburg, VA

- **B.S in Computer Science**, expected May 2022
- **Cumulative GPA: 3.92**
- **Relevant Courses:** Data Structures & Algorithms, Intro to Computer Organization, Software Design & Data Structures, Intro to GUI Programming and Graphics
- **Programming Skills:** Java, C, Python, HTML, CSS, JavaScript, C#

## Work Experience

---

**Virginia Tech Computer Science Ambassador**

August 2021 – Present

- Represents the Virginia Tech Computer Science Department as a student ambassador
- Helps facilitate engaging and experiential activities at information sessions, career fairs, open houses, and other departmental events.
- Provides feedback and insight from the student perspective at Departmental Faculty meetings.

**Teaching Assistant | CS 2104, Problem Solving in CS**

August 2020 – December 2020

- Hosts office hours to answer course concept questions in various topics, including problem solving techniques, databases, SQL, the software development process, AI, Machine Learning, and HCI.
- Assists students with formulating and communicating solutions of programming problems to their teams.

## Projects

---

**K-D Tree (Java)**

July 2020

- Implements the spatial data structure 2-D Tree to organize a database of cities based on their longitude and latitude coordinates.
- Develops a Region Search function that locates cities in a specified search region.

**HeapSort with BufferPool (Java)**

July 2020

- Implements the external sorting algorithm HeapSort to sort a database of records on disk.
- HeapSort algorithm uses a BufferPool, which was developed using the doubly linked list data structure, to minimize disk access while efficiently sorting data.

## Honors/Awards

---

- **Virginia Tech Computer Science Investment in Excellence Scholarship**
- **Virginia Tech CS Source Scholarship**
- **UTC Systems Scholarship**
- **CGI Scholarship**
- **Jerry H. Ballengee Scholarship**
- **SRA International Scholarship**
- **G.L. Furr Sr. Memorial Scholarship**
- **Virginia Tech Dean's List**, Spring 2021, Fall 2020, Fall 2019
- **Virginia Commonwealth University Dean's List**, Spring 2019 & Fall 2018