

# Ngoc Minh Khoi Tran

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## EDUCATION

**A.S. Computer Science** May 2022  
Estrella Mountain Community College, Avondale, AZ 4.00 GPA

**B.S. Computer Science** Expected May 2024  
Arizona State University, Tempe, AZ 4.00 GPA

## TECHNICAL SKILLS

**Programming Languages:** Python, Java, JavaScript, C/C++

**Front-End:** HTML, CSS, JavaFX

**Tools, Databases, and OS:** GitHub, Windows, Linux/Unix

## RELEVANT PROJECTS

**Daily Weather Alert Through Text** Fall 2023

- Personal rain forecast alert **Python** program using **OpenWeatherAPI**
- Option to send SMS/MMS using direct **SMTP** or **TwilioAPI**
- Automated to run daily using **crontab** on headless **Raspberry Pi**

**Simple Navigation System** Fall 2022

- Devised a navigation system using **Dijkstra's Shortest Path Algorithm** in **C/C++**
- Programmed to take simplified text files of various transportation networks.
- Tested on the California public transportation network.

**SunDevil Pizza App** Fall 2022

- Created an app that takes, and process student's orders using **Java** and **JavaFX** and followed a **plan-driven software engineering process** in a team of 5, contributions made through **GitHub**.
- Utilized **object-oriented concepts**, **simple login verification procedures**, multiple interfaces depending on user type.

**Heap Data Structure Demonstration** Fall 2022

- Implemented the heap data structure (min-heap, max-heap, **double ended heap**) of structs using **C/C++ on Linux**.
- Added functions like increase/decreaseKey, delete, extractMax/Min, and Insertion that the standard heap from the C/C++ library does not have.

**Sorting Algorithm Demonstration** Fall 2022

- Created a program in **C/C++** to implement insertion sort, quick sort, and merge sort on an array on Linux.
- Included printing out array while sorting, keeping track of element wise comparison and utilized memory management capabilities of C/C++

## WORK EXPERIENCE

**Burton Barr Central Library, Phoenix, AZ: Computer Aid** 08/2022 – 10/2022

- Help and troubleshoot patrons with computer-related problems, including help with printing, faxing, and general technical problems.

**Pho King Eggroll, Goodyear, AZ: Waiter** 01/2019 – 10/2021

- Provide customer service for patrons of the restaurant while working in a team environment.

## EXTRACURRICULAR

**Vietnamese Student Association, Executive Board Member: Photographer** 10/2022 – Present

- Worked with sixteen other board members to plan and organized culturally significant events that spread awareness about Vietnamese culture.
- Plan and execute various photoshoots as well as casual candid shots of meetings.