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.