Vinh Le

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EDUCATION

B.S. in Software Engineering GPA: 3.763   **Expected Graduation: May 2022**
University of Texas at Dallas   Richardson, TX

PROJECTS

Collabify, *Web Application*
- Created Python Flask app that allows real time collaboration of music through use of the Spotify API
- Implemented SQLite database using Flask-SQLAlchemy framework to store session details for each user
- Generate real-time UI updates using Socket.io and Flask-Socketio to establish client-server communication

Trek, *Mobile Application*
- Created a React-Native app that generates personalized walking routes with the Google Maps API
- Used Flask backend server to call on API and handle route generation algorithm
- Placed 2nd Overall at MLH Backyard Hacks 2020 Hackathon

Twin Eagle, *Java Application*
- Created a top-down, scrolling arcade shooter with a GUI interface from scratch using Java
- Programmed enemies to actively target the player using constantly updating position of the player sprite

Blokus, *Java Application*
- Recreated Blokus, a popular board game, in Java by implementing the GridWorld API
- Implemented piece rotation mechanics with ArrayList and custom rotation algorithm

Data Structure Implementations, *Java Program*
- Created a linked list and binary search tree with full functionality from scratch using Java
- Implemented the data structures to store Generic Java types to be able to store any class that implements the Comparable interface

EXPERIENCE

Chi Phi Fraternity   **Psi Zeta Chapter**
Public Relations Chairman   *April 2019-Present*
- Designed and marketed merchandise that exceeded 150 units sold, doubling previous sales
- Contacted and secured corporate sponsors for semesterly event with over 1,000 attendees
- Direct committee members in managing fraternity social media accounts

UT Dallas Testing Center   **Richardson, TX**
Test Proctor   *June 2019 - Present*
- Collaborate with a team of proctors to maintain a secure testing environment for all UTD students
- Facilitate and monitor the flow of hundreds of students daily throughout the testing center

Plano Senior High School Band   **Plano, TX**
Vice President   *July 2017 - May 2018*
- Facilitated weekly meetings with officer team to establish goals and address issues
- Coordinated with local businesses to provide accommodations for the band after football games

ADDITIONAL

- **Technical Skills**: Java, C++, HTML/CSS, Python, SQLite, Flask, React-Native
- **Relevant Coursework**: Introduction to Machine Learning, Computer Architecture, Data Structures and Algorithmic Analysis, Linear Algebra, Discrete Mathematics, Software Engineering and Agile Methods
- **Honors & Awards**: National Merit Finalist, All Region Symphonic Band