TUANH CAO

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Education

Georgia Institute of Technology

Atlanta, GA

Bachelor of Science in Computer Science

Expected December 2023

Relevant Coursework: Artificial Intelligence, Probability and Statistics, Applied Combinatorics, Design and Analysis of Algorithms, Discrete Mathematics, Data Structures and Algorithms

Experience

Amazon

Seattle, WA

May 2022-August 2022

- Software Development Engineer Intern
 - Designed and implemented backend override for error in shipment forecasting system to decrease forecasting percentage error by over 50% and costs for new shippers by approximately 25%
 - Programmed changes within preexisting neural network code, AWS database, and dependent services to fix inaccurate ML model predictions for new shippers who lack shipment history
 - Communicated within team during daily standup to develop an all-encompassing high level design
 - Collaborated across a different team to approve, authorize, and integrate with their independent service to
 access data needed to perform the backend override for new shippers

Georgia Tech College of Computing

Software Developer

Atlanta, GA August 2021-December 2021

- Analyzed preexisting code for homework autograder system, which scores and performs cheat-detection for over 800 students' MATLAB homework code on a weekly basis
- Documented and organized code packages to improve foundation for debugging and future changes
- Reconstructed autograder software from Google-based authorization to Microsoft-based authorization to accommodate for university's new privacy contract

Teaching Assistant

January 2021-December 2021

- Collaborated with team of 20 to manage intro level programming course of over 800 students
- Taught MATLAB syntax and foundational coding concepts during 1-1 tutoring and weekly recitation
- Created homework and exam questions to evaluate students' coding and problem solving skills
- Debugged code and guided students' thought process to help solve homework coding problems

Projects

Personal Website

Ongoing

- Developed website for personal portfolio using HTML, JavaScript, and CSS on an encrypted DNS
- Designed interface in a clean, aesthetic, and intuitive layout for optimal user experience

Card Generator IOS App

Ongoing

- Developed an App which allows users to draw a single random playing card through their IOS device
- Designed a solid and buildable code foundation to expand project upon as a multi-player poker game
- Programmed in Swift and SwiftUI to explore IOS development and maximize potential outreach

Data Visualization

April 2021

- Collaborated with team of Teaching Assistants to develop a final project for students to replicate
- Created project idea of analyzing crime in Atlanta to inform students and promote campus safety
- Implemented a program to plot the locations of crime from 2020 and created graphs of various statistics

Skills

Programming: Java, C, C++, Python, Assembly, Swift, HTML, JavaScript, CSS, MATLAB

Languages: English – fluent, Vietnamese – fluent, Spanish – conversational

Leadership: Vietnamese Student Association Treasurer

Interests: Piano, Guitar, Dance, Weight Training, Tennis, Volleyball, Travelling