

# KHIEM NGUYEN

khiem.nguyen@tcu.edu | 346-317-2962  
2822 Livingston Ave, Fort Worth, TX 76110  
GitHub: [www.github.com/khiemduynguyen](https://www.github.com/khiemduynguyen)

## EDUCATION

*Texas Christian University, Fort Worth, TX*

**Bachelor of Science in Computer Science and Mathematics, May 2022**

Major GPA: **4.0** Overall GPA: **4.00**

*Tarrant County College Southeast campus, Arlington, TX*

**Associate in Science, August 2016 – May 2018**

Overall GPA: **4.00**

## COMPUTER SKILLS

*Languages:* Python [medium], Java [medium], R [beginner], C++ [beginner]

*Operating Environments:* Ubuntu 18.04, Virtual Machine, Amazon Web Services

*Technical:* Deep Learning, Neural Network, Data Analytics, Reinforcement Learning, Computer Vision

## EXPERIENCE

**Grader, TCU Department of Computer Science, Fort Worth, TX**

September 2019 – Present

- Grade assignments/homework for Prof. Bingyang Wei and Prof. Antonio Sanchez

**Research Assistant, AI2Go, Fort Worth, TX**

March 2019 – Present

- Solve Go board game with smaller board size (5x5 to 9x9) using same architecture of AlphaZero of Google's DeepMind
- Modify the source code to be able to train new neural network that works with smaller size
- Develop Python scripts tools to analyze the output patterns that lead to finding optimal solutions on smaller Go boards
- Gain understandings and knowledge about Deep Reinforcement Learning Neural Network and Monte Carlo Tree Search used in
- Work as a team with one other Research Assistant under the advising of Dr. Liran Ma and Dr. Ze-Li Dou

**Math Tutor, Tarrant County College Southeast campus, Arlington, TX**

July 2017 – May 2018

- Tutor students from all math courses taught at TCC
- Review for student science-based courses from physics, and computer science department
- Manage front desk, monitor check in/out process, set up appointment for one-to-one review

## RELEVANT COURSEWORK

Deep Learning Specialization [5 certificated courses on coursera.org] (Python)

Programming Fundamental I (C++)

Programming Fundamental II (C++)

Techniques in Programming (Java)

Data Structure (Java)

Introduction to Computer Science and Programming

Computational Thinking and Data Science (Python)

Unix/Linux Administration

## ACHIEVEMENTS

- Dean Scholarship from Texas Christian University and Full Scholarship from University of Dallas
- Tarrant District Fourth place winner in the Jim Bolen Math Competition. 2018
- Tarrant District Second place winner in the Jim Bolen Math Competition. 2017

**Member of:** Phi Theta Kappa Society, *Tarrant County College*

December 2016 – May 2018

**Member of:** Math Club and Mu Alpha Theta Honors Society chapter, *TCC*

December 2016 – May 2018