

# KHIEM NGUYEN

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## EDUCATION

*Texas Christian University, Fort Worth, TX*

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

Cumulative GPA: **3.95/4.0**

## COMPUTER SKILLS

*Languages:* Python [advanced], Java C++ C MATLAB Octave R [medium], HTML CSS Javascript [beginner]

*Operating Environments:* Ubuntu 18.04, Virtual Machine

*Tools:* Visual Studio, vim, git, ssh, LaTeX, Docker, TensorFlow, Raspberry Pi, Jetson Nano

*Technical Interests:* Data Analytics, Deep Learning, Computer Vision, Reinforcement Learning, IoT, AI

## EXPERIENCE

**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 AI game system
- Install 3 workstations for AI/IT lab with Ubuntu, Tensorflow ready for AI training (2x1080Ti, 3xTitan RTX)
- Work as a team with one other Research Assistant under the advising of Dr. Liran Ma from Computer Science dept and Dr. Ze-Li Dou from Mathematics dept of TCU

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

September 2019 – November 2019

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

**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)

Computational Thinking and Data Science (Python course on edx.org)

Machine Learning [Certificated course on coursera.org] (MATLAB and Octave)

Programming Fundamental I & II (C++)

Computer System Fundamental (C and C++)

Techniques in Programming (Java)

Data Structure (Java)

Unix/Linux Administration

Computer and Network Security

Programming Language Concept

## 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