**EDUCATION**

**The University of Texas at Dallas, Richardson, TX May 2020**

BS in Computer Science, GPA 4.0 / 4.0

**SKILLS**

**Programming Languages:** C/C++, Python, Lua, SQL, Java, Octave, R

**Assembly Languages:** MIPS, x86

**Hardware Description:** SystemC

**Graphics:** OpenGL, GLFW

**Machine Learning:** Tensor Flow, MXNet

**Editors:** VSCode, Emacs, Vim, XCode, PyCharm, Eclipse

**WORK EXPERIENCE**

**Undergraduate Researcher |** DARCLab **May 2018 – Present**

* **C++ Programming:** Developed synthesizable hardware systems for FPGA, written in C++ with the SystemC framework
* **Artificial Neural Networks:** Developed an ANN library from scratch

**Undergraduate Researcher |** Advanced Research Center for Software Testing **May 2018 – Jul 2018**

* **Reward Function Hacking:** Researched the most recent developments in reward hacking, a problem in training AI systems with imperfect cost functions

**Software Engineering Intern |** Procedural Reality **May 2017 – Aug 2017**

* **Lua Programming:** Designed and implemented an AI navigation system for a video game

**Teaching Assistant |** LSU Coding Circle **Jun 2017**

* **Teaching Python:** Taught and mentored gifted middle and high school students learning to program in Python in a summer camp

**LEADERSHIP**

**Founding Secretary |** The Assembly Group **May 2018 – Present**

* **Teaching x86:** Help in the preparation and teaching of x86 to club members
* **Organization:** Maintained focus on agenda during officer meetings, and kept accurate minutes

**PROJECTS**

**Competitive Programmer |** Code Burners **August 2017 – Present**

* **C++ Programming:** Coded solutions to a wide variety of programming problems in C++
* **Advanced Algorithms:** Solved complex problems using experience in algorithms and data structures

**Machine Learning Car |** ACM Projects **Sep – Nov 2017**

* **TensorFlow:** Developed an image processing system to navigate a car through a room and around obstacles

**HONORS AND AWARDS**

**Dean’s List** **Fall 2017 – Present**

**CS2 Scholar:** Honors program at UT Dallas for the top 10% of CS undergraduates **Fall 2017 – Present**

**National Merit Scholarship:** Four-year full-ride scholarship to study at UT Dallas **Spring 2017**

**USACO:** Achieved a place in the gold division of the USACO programming competition **Spring 2017**