

EDUCATION

Bachelor of Science - Computer Engineering • University of Illinois at Urbana-Champaign

Champaign, IL • 2019

Overall GPA: 3.80/4.0

Dean's List Fall 2015, Spring 2016, Fall 2016, Spring 2017, Fall 2017

SKILLS

Linux, Mac OS, Windows;

Frequently use C++, Python and Git;

Taken class about x86, C, SQL;

Self learned MQL5 for exchange trading;

Data management

Self-motivated

Strong verbal communication

Extremely organized

PROJECTS

- C & x86 Assembly — An Operation System based on Linux Kernel
Group of 4. Implement from GDT, IDT table, paging, RTC, Keyboard to scheduling and executing user level programs.
- Python — PONG | AI Digit Recognize | Game of Sokoban | Game of Gomoku
Group of 3. Using python and take simple inputs file and return the min steps/ best planning strategies using BFS, DFS, A* algorithms. For digit recognize AI, we used Naive Bayes Classifier with bias and learning rate decay function to train the agent and get 96% accuracy for testing set. I also personally finished Game of Pong using Q Agent for both TD and SARSA learning. The agent can accomplish 15 bounces over 200 tests after 100k game training.
- SystemVerilog & Python — Game on FPGA (demo on <http://bit.ly/2pT2bs0>)
Group of 2. Implementing mouse, keyboard on the FPGA board for multiplayer. We also hand made all Sprites and simple animations and using python script to generate an FPGA friendly txt file as its indicator for color reference.

WORK HISTORY

Data Structures Course Assistant • UIUC Department of Computer Science

Urbana, IL • January 2018 to Current

- Build up a course wiki page for C++ and algorithm that contains more than 25 topics for students to reference
- Taught C++, data structures, recursion, basic generic programming and object-oriented programming concepts
- Hosted seven office hours every week and received positive feedbacks from others

Engineering intern • KODAK

Shanghai, Shanghai • July 2017 to August 2017

- Collected, formulated and analyzed quality data and used Numpy and Matplotlib to build up graphs for reports
- Used Excel to build up monthly data report and helped manager tracking a 20 people working group to record progresses
- Actively participate company's activity, including all training programs