

Programing Languages

- Very skilled with *C* , *C++* for desktop applications and *C#* for *webservers*.
- Fairly experienced with *HTML*, *JavaScript*, *ECMAScript*, *AngularJS*, *React*, *MySQL*, *MongoDB*, *JSX*, *jQuery*, and *Python*.

Machine Learning

- Experience using various *Neural Network* libraries in *C++* and *python*.
- Use *Hyperparameter* tuning to ensure faster training times (*Grid Search*, *Random Search*)
- Analyzing and decomposing *big data* for *NN input layers*.

Technical Skills

- *GhostHub*, *Git**Hub*, *Team Foundations*, and *Tortoise SVN* for version control.
- Debugging in *Visual Studios* and *codeLite* IDEs.
- *Protobuf*, *JSON*, *XML*, *CSV*
- *MVC* and *.NET Core*.

Education

Kennesaw State University, Kennesaw, GA
Bachelors of Science in Software Engineering, Fall 2018

Relevant Work Experience

Blizzard Entertainment – Irvine, CA Software Engineer Intern

May 2017 - August 2017

- Designed and created tools in *C++* to gather and extract training data directly from the *StarCraft II* game engine
- Assisted with the development of *Blizzard / Deepmind*'s public *AI API* (*C++*, *ghosthub*/*CVS* for version control)
- Designed and performed *grid search* and *random search* for tuning the *hyperparameters* of *neural networks*

Kennesaw State University – Kennesaw, GA Teaching Assistant

August 2016 - May 2017

- Teach students the concepts and implementation of various data structures in *C++* (*Linked Lists*, *Binary Trees*, *Hash Tables*, ect..)
- Guide students through the coding process during scheduled tutoring hours
- Provide the professor with assistance and feedback during class time

Scientific Games – Alpharetta, GA Software Engineering Intern

May 2016 - August 2016

- Discussed and identified software, business, and development requirements for upcoming projects
- Used *Microsoft*'s *MVC* framework (*C#*, *AngularJS*, *HTML5*, *CSS*) to develop fully functional web-based data analytics application for tracking and prediction lottery sales.
- Performed white box testing on embedded *C++* program files

E-Ring – Alpharetta, GA Software Tester Intern

November 2014 - June 2015

- Documented and reported bugs, errors, interoperability flaws and other issues within proprietary software applications developed for *E-Ring*'s global user base
- Used methodical, detail-oriented and thorough approach to all assignments while adhering to compressed timelines
- Completed all assignments on or ahead of schedule

Personal Projects

- Used *Reinforcement Learning* (*Q-Learning Algorithms*) to train an agent to navigate a *grid world* in *C++*

- Created *Custom C++ Neural Network Library* and used it to implemented *MNIST* handwriting recognition. Uses a *sigmoid activation function* to calculate the error in *back-propagation*

- Created *Intel 8080 Space Invaders emulator* written in *C*, using *OpenGL* for graphics. Implemented 60 *opcodes* with *interrupts* and button input currently in progress.