# Christopher Brown

## Work Experience

**2018-Present**   **Computer Science Tutor**, *Utah State University*, Logan, UT.
Help students learn best coding practices, review content with them, explain how to solve problems, and check completed work for any improvements. Also help students develop study skills and organization techniques to improve their academic performance.

**Summer 2018**   **Software Development Engineer Intern**, *Navitaire*, Cottonwood Heights, UT.
Worked with Navitaire's internal technology team to explore and develop emerging technologies. Met with key stakeholders to brainstorm which new technologies could best fit the immediate and future business demands of the company. Explored the need for a cryptographically secured ledger and constructed a proof of concept using current blockchain tools, including Hyperledger and Docker containers.

**Summer 2017**   **Software Development Engineer Intern**, *Amazon*, Seattle, WA.
Designed and implemented a system that is used to show Amazon sellers more information on the products they have listed in foreign markets. Requirements were formed through discussions with clients and the design was rigorously reviewed by team members on a regular basis. Code was managed through an internal git server and quality was ensured by frequent code reviews. Utilized Google Guice for dependency injection and Amazon Web Services for load balancing and automatic scaling.

## Projects

Expanded upon a pre-existing hierarchical macro-micro action based agent that has learned to play StarCraft II using expert rules by training it using reinforcement learning instead. Utilized actor-critic methods with a double deep Q network and experience replay.

Built a deep neural network that separates domain specific information from general knowledge. Using this, one can build multiple networks with the same general layers that independently train for collective knowledge acquisition.

## Technical Skills

Programming Languages: Python, C++, JavaScript, Java, C#
Frameworks and Libraries: TensorFlow, Pytorch, Keras, OpenAI Gym, Angular, D3
Version Control and Continuous Integration: Git, Jenkins, Travis

## Education

**In Progress**   **PhD in Computer Science**, *Utah State Univserity*, Logan.
Lifelong Machine Learning for Collective Knowledge Acquisition

**2018**   **BS in Computer Science**, *Utah State University*, Logan.
Emphasis in Software Development

*574 N 3450 W – 84041 Layton, Utah*

*801-726-9844* • *christopher.r.brown@aggiemail.usu.edu*
*https://github.com/ChrisBrown46*