

KYLE BRIDBURG

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EDUCATION

BS in Computer Science and Engineering

Class of 2018

Massachusetts Institute of Technology, GPA: 4.1/5.0

SKILLS AND INTERESTS

| | |
|-------------------|--|
| Skills | JavaScript, C#, C++, Java, ElasticSearch, HTML/CSS, Python, React, Django, MatLab |
| Activities | Game Design Club, MIT EMS, Phi Kappa Theta |
| Coursework | Elements of Software Construction, Computation Structures, Math for Computer Science Computational Photography, Computer Graphics |

WORK EXPERIENCE

Software Engineering Intern for Rev.com

June - August 2017

- Developed and shipped real time full text search feature for a website with thousands of users.
- Created a process to automatically sync and handle versioning of documents in search database.
- Designed an efficient process for transferring and reformatting large amounts of data.

Software Engineering Consultant for The MBA Exchange

January 2017

- Full stack development with another engineer to create a data storage platform for a small company based in Boston.
- Worked with non tech-savvy business to develop realistic schedule and meet project deadlines.

Data Analyst at McGovern Institute

June - July 2016

- Developed a tool to sync up, and display relevant statistics given large sets of fiber photometry data and behavioral data in Matlab.

PROJECTS

“Relax :)”

May - October 2016

- Project in Unity3D, solo designed and developed everything from game concept to current state.
- Developed a perlin noise based procedural land generation system using threading.
- Scripted a functioning, auto focusing third person camera in order to reduce cognitive load on the player.

Biologically Plausible Spiking Neural Network

August 2016

- Implementation a biologically plausible spiking neural network framework in JavaScript.
- Currently working to expand individual neuron learning capability.
- Based on: J. E. Smith, Biologically Plausible Spiking Neural Networks, self-published monograph, Missoula MT, June 19, 2015.

Genetic Investment Algorithm

June 2016

- Engineered a genetic algorithm for development of investing strategies through training on historical data sets.
- Future plans to increase gains and implement real time investing.