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
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-savy 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.

ACTIVITIES

Phi Kappa Theta New Member Educator

- Designed and carried out extensive education program for new members involving talks by current members as well as self organized events to teach organizational skills and leadership.

MIT EMS Member

- Participated in an intensive month long training program involving 50 hours per week class time to become a Licensed EMT.
- Volunteered 4-6 hour shifts on student run ambulance responsible for health and safety of more than 20,000 MIT students and staff.

League of Legends Club Board of Directors

- Organize a biyearly tournament normally consisting of over 12 teams and 60 participants.
- Cooperate with 5 other board members to organize club meetings and events.