Robert A. Wagner

Present Address
2355 Murray Hill Rd #430C
Cleveland, OH 44106
(330) 858-8123
raw141@case.edu

Permanent Address
2467 Barrington Rd
Fairlawn, OH 44333
(330) 836-5546
robert-wagner.github.io

Education

Case Western Reserve University, B.S., Computer Science, Minor, Banking and Finance expected May 2019

Copley High School, Graduated with Honors, May 2015

Related Experience

Undergraduate Research Assistant   8/15-Present
Kirsch Lab, Case Western Reserve University, Cleveland, OH
Part of the BrainGate 2 project. Involved in development of goal based algorithms for neural decoding. Used linear discriminant analysis to create classifiers for the purpose of target differentiation based on position of a cursor. Created data visualization tools for easier understanding of path efficiency. Implemented games which responded in real time to neural signals recorded via a Brain- Machine Interface.

Intern   7/13 & 7/14
Safadi Lab, Department of Anatomy and Neurobiology, Northeast Ohio Medical University, Rootstown, OH
Interned under Dr. Fayez Safadi with a focus on research into Osteoblastic differentiation. Performed cell culture and microscopy for the analysis of the effect of electrostimulation on bone growth.

Mentor   7/14
Austen BioInnovation Institute, Akron, OH
Taught the basics of Biomedical Engineering including computer-aided design, problem identification and solving. Helped a group of students apply the aforementioned skills to develop a product idea for concussion prevention and detection.

Skills

Programming languages: Java, Python C, JavaScript, Matlab
Software: SolidWorks, Microsoft Office
Tools: Vim, Postgresql, Git, Github, Intellij Idea, Pycharm, Sublime Text, Atom, Docker

Relevant Courses

EECS 391: Introduction to Artificial Intelligence(Ongoing)
EECS 325: Computer Networks(Ongoing)
EECS 338: Introduction to Operating Systems(Ongoing)
EECS 341: Introduction to Database Systems
EECS 340: Algorithms
EECS 302: Discrete Mathematics
MATH 307: Linear Algebra
EECS 233: Introduction to Data Structures

Honors

SOURCE 2016 Summer Research Scholar
Source America Design Challenge 2015 Champion

Activities

Delta Chi Fraternity, Judicial Board Member, Former Pytte Cup Chair and Greek Week Chair
Alpha Phi Omega Fraternity, Sergeant at Arms
CWRU Ultimate Frisbee, Developmental Team Member