Amber Rawson

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Education

Rutgers University, School of Engineering   Sept 2016-Present
Dean's List - Fall 2016, Spring 2017   Cumulative GPA: 3.711/4.0
Electrical and Computer Engineering & Computer Science double major

Research Experience

GRIST Lab Security Protocols   May 2017-Present
- Collaborated to create a strategy game where attackers strike certain targets while defenders try to counter their attacks and capture them
- Player data is gathered to develop an algorithm that can improve the probability of the attacker being captured, which can then be applied to law enforcement's defense strategies
- Developed a 3D environment using Unity Game Engine and wrote scripts to realistically spawn crowd agents according to exponential distribution

Synthetic Census Data Generation   Feb 2017- May 2017
- Used Python libraries to analyze interdependence of factors such as utility costs, annual income, and geographical region in 2015 New Jersey Census housing data
- Measured correlation values to construct a max weight spanning tree that can be used to anonymize data

Activities

Intramural Volleyball (Captain)   Fall 2016-Present
    Learned event coordination and time management by organizing weekly practices for ten team members
Craft to Cure Club   Fall 2016-Present
    Participated in monthly craft related volunteering activities
Makerspace   Fall 2016-Present
    Learned how to create dxf files and operate a laser cutter

Relevant Courses

Current:	*Past:*
Principles of Electrical Engineering	Calculus (I and II)
Digital Logic Design	Data Structures
Linear Algebra	Matlab
Multivariable Calculus	Physics: Electricity and Magnetism

Proficiencies

Languages: Java, C#, HTML, CSS, Javascript, Python
Other: Unity Game Engine, Github