Alex Lamson

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Education
MS in Computer Science at UMass Amherst (GPA 3.82)   2018-2020 (expected)
BS in Computer Science at UMass Amherst (GPA 3.53)   2014-2018

Languages / Frameworks
Languages: Python, Jupyter Notebook | Scala, Java, C++ | Javascript, Bootstrap, React
Frameworks: Git, PostgreSQL, MongoDB, Android Studio, Virtualbox

Projects / Papers
W!NCE: Unobtrusive Sensing of Upper Facial Action Units with EOG-based Eyewear
- Cleaned data and built a machine learning model to predict blinks (Research Paper)

8x8x8 LED Cube
- Built and programmed 1 ft tall 3D RGB lattice (Project for Physical Computing Course)

Exploring the Effects of Context in Image Classification
- Created and tested new data augmentation technique that removes context from images in an attempt to improve classifier accuracy (Project for Neural Networks Course)

Room Localization using Ambient Sound
- Programmed app that determines the room you are in using the phone's microphone. Achieved accuracy of 97.2% with 5 rooms. (Project for Mobile Health Sensing Course)

Work Experience
UMass Amherst - Research Assistant   May 2018 - Present
- Building machine learning model to detect if a pill was taken using pill bottle motion data

Dell SonicWALL - Intern Undergrad Associate   May - August 2016
- Wrote library in Rust and C to dynamically load machine learning features
- Helped other interns with machine learning and automation scripts

Gliimpse - Summer Intern   June - August 2015
- Programmed web dashboard to streamline continuous data monitoring
- Created iPhone app that integrated with Apple Healthkit. Startup was later sold to Apple

Dell SonicWALL - Software Development Advisor   June - August 2014
- Wrote scripts to generate email reports for spam model quality assurance
- Used MatPlotLib to visually communicate email thumbprint information

Relevant Courses

Machine Learning	Reinforcement Learning	Mobile Health Sensing & Analytics
Neural Networks	Information Systems	
Principles of Data Science	Intro to Computer Vision	Intro to Natural Language Processing
Algorithms for Data Science	Artificial Intelligence	
Social Issues in Computing	Software Engineering	Make: Physical Computing