Alex Lamson

(some information removed to prevent unsolicited messages)

Education

MS in Computer Science at UMass Amherst 2018-2020 (expected)
BS in Computer Science at UMass Amherst 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
Neural Networks
Principles of Data Science
Algorithms for Data Science
Social Issues in Computing
Reinforcement Learning
Information Systems
Intro to Computer Vision
Artificial Intelligence
Software Engineering
Mobile Health Sensing & Analytics
Intro to Natural Language Processing
Make: Physical Computing