

# Alex Lamson

(some information removed)

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## 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

*Glimpse - 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