

ALEX LAMSON

🛡️ Active Security Clearance

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WORK EXPERIENCE

Senior Associate Software Engineer

L3Harris KEO

📅 August 2020 – Present

📍 Northampton, MA

- Delivered exciting R&D project with large team at naval defense imaging (periscope) company
- Working on graphical user interface that involves video

Research Assistant

University of Massachusetts Amherst

📅 May 2018 – August 2020

📍 Amherst, MA

- Worked with NASA to improve item localization on the International Space Station using noisy RFID readings (NASA REALM project)
- Built ML pipeline to detect pill intakes using smartwatch motion data

Intern Undergrad Associate

Dell SonicWALL

📅 May 2016 – August 2016

📍 Santa Clara, CA

- Wrote library to dynamically load machine learning features
- Taught interns fundamentals of machine learning and automation

Summer Intern

Gliimpse

📅 June 2015 – August 2015

📍 Redwood City, CA

- Programmed web dashboard to visualize data quality in real time
- Created iOS app that integrated with Apple Healthkit
- Startup was later bought by Apple

Software Development Advisor

Dell SonicWALL

📅 June 2014 – August 2014

📍 San Jose, CA

- Automated system reports & used Matplotlib to visualize email meta-data

EDUCATION

Master's in Computer Science

University of Massachusetts Amherst

📅 Sept 2018 – August 2020

GPA: 3.82

Bachelor's in Computer Science

University of Massachusetts Amherst

📅 Sept 2014 – May 2018

GPA: 3.53

SKILLS

Python

C++

Machine Learning

SQL

Linux

Git

scikit-learn

Javascript

Scala

Blender

Unity

RESEARCH

W!NCE: Unobtrusive Sensing of Upper Facial Action Units with EOG-based Eyewear

UMass Amherst

📅 May 2018 – November 2018

- Trained a random forest classifier to predict blinks
- Paper accepted to ACM IMWUT in March 2019

PROJECTS

Anime Image Metadata Dataset

- With 2.7 million rows, one of the largest anime datasets in the world
- Wrangled data into a clean csv file, posted on Kaggle
- Wrote unsupervised statistical algorithm that reveals implicit tag hierarchy

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

LED Cube

- Built 1 ft tall 3D RGB LED lattice with >1000 solder joints
- Programmed it to act as a real-time 3D display by streaming webcam video

Exploring the Effects of Context in Image Classification

- Created and tested data augmentation technique that removes context from images in an attempt to improve classifier accuracy