ALEX LAMSON

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WORK EXPERIENCE

Research Assistant
University of Massachusetts Amherst

📅 May 2018 – Present   📍 Amherst, MA

- Working 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 metadata

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

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   Java   PostgreSQL
scikit-learn   Git   Linux   Javascript
Scala   C++   Blender   Unity

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

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

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

Subreddit Predictor

- Created model to predict what subreddit an unlabeled text post came from
- Achieved 66% accuracy over a baseline accuracy of 10%