ALEX LAMSON

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WORK EXPERIENCE

Research Assistant
University of Massachusetts Amherst

📅 May 2018 – Present 📍 Amherst, MA

- Built ML pipeline to detect pill intakes using smartwatch motion data
- Designed ML pipeline for predicting temper tantrums via on-body sensors

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 a web dashboard to visualize data quality in real time
- Created iOS app that integrated with Apple Healthkit. Startup was later sold to 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 – May 2020 (Expected) GPA: 3.82

Bachelor's in Computer Science
University of Massachusetts Amherst

📅 Sept 2014 – May 2018 GPA: 3.53

SKILLS

Python Scala Java Javascript
Git SciKitLearn PyTorch C++

PROJECTS

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

Anime Image Metadata Dataset

- The largest anime dataset in the world (by number of examples)
- Scraped descriptive tags for 2.7 million anime images
- Wrangled the data into a clean csv file, posted as a Kaggle dataset

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

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%