

Alex Lamson

job@alexlamson.com

Phone number
available on request

alexlamson.com

Skills

Languages Python, Jupyter | Scala, Java, C++ | Javascript, Bootstrap, React
Frameworks numpy, pandas, sklearn, pytorch | Git | PostgreSQL, MongoDB

Projects

Anime Image Metadata Dataset

- Scraped 2.7 million rows, one of the largest anime datasets in the world
- 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 new data augmentation technique to improve model accuracy

Work Experience

Research Assistant **UMass Amherst** *May 2018 - Present*

- Working with NASA to improve item localization on the ISS using noisy RFID readings
- Built ML pipeline to detect pill intakes using smartwatch motion data

Intern Undergrad Associate **Dell SonicWALL** *May - August 2016*

- Wrote library to dynamically load machine learning features
- Assisted interns with machine learning and automation

Summer Intern **Glimpse** *June - August 2015*

- Programmed a web dashboard to visualize the 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 - August 2014*

- Automated system reports & used Matplotlib to visualize email metadata

Research

WINCE: Unobtrusive Sensing of Upper Facial Action Units with EOG-based Eyewear

- Cleaned data and built a machine learning model to predict blinks
- Accepted to ACM IMWUT in March 2019

Education

Masters in Computer Science at UMass Amherst (**GPA 3.82**) 2018-2020 (expected)
Bachelors in Computer Science at UMass Amherst (**GPA 3.53**) 2014-2018