# ALEX LAMSON

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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

## 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

## 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 backend that determines the room you are in using the phone's microphone
- Achieved accuracy of 97.2% with 5 rooms

### INSTINCT - 2D self-driving car

- Generated synthetic data for training novel reinforcement learning model
- Outperformed baseline traditional RL technique by a full lap around the track

### 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