802-917-1430   alex.lamson@gmail.com   alexlamson.com   **Active Secret Clearance**

Alexander Lamson

Education

- MS, Computer Science UMass Amherst, 2020, GPA 3.8
- BS, Computer Science UMass Amherst, 2018, GPA 3.5

Skills

- C/C++, Java, Python
- Docker, Bash, Agile
- Machine Learning, Data Science
- Web Development, 3D Modeling

Projects

- Anime Image Metadata Dataset - 2.7 million rows, one of largest on Kaggle
- Room Localization using Ambient Sound - 97% accuracy over 10 rooms

Experience

Software Engineer, L3Harris Technologies, Northampton, MA, Aug 2020 - Present
- Wrote GPU accelerated code in C++ to process live video from visual/thermal camera systems
- Delivered fully tested software on schedule under aggressive deadlines
- Supported data collection and off-site installation of a camera system on autonomous boat
- Rewrote documentation to improve and standardize software processes
- Served as containerization subject matter expert and Atlassian sysadmin
- Improved procedure to reduce formal software release process from four weeks to two weeks
- Safely worked in an electrostatically controlled environment and a clean room
- Migrating user data to a single Atlassian server to save the company $30,000 per year

Research Assistant, UMass Amherst, Amherst, MA, 2018 - 2020
- 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

Undergraduate Intern, Dell SonicWALL, Santa Clara, CA, Summer 2016
- Wrote library to dynamically load machine learning features

Undergraduate Intern, Gliimpse, Redwood City, CA, Summer 2015
- Programmed web dashboard to visualize data quality in real time
- Created iOS app that integrated with Apple Healthkit
- Startup was later bought by Apple

Undergraduate Intern, Dell SonicWALL, San Jose, CA, Summer 2014
- Automated system reports & visualizations of email metadata

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