

Alex Lundberg
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EDUCATION

- **University of Wisconsin Madison** Madison, WI
Bachelor of Science in Computer Science; GPA: 3.77 *Sep. 2014 – May. 2019*

EXPERIENCE

- **S&C Electric** Chicago, IL
Software Engineer Intern *May 2018 - Aug 2018*
 - **Continuous Integration:** Created pipeline from Git checkins to testing to deployment using Jenkins, Bash, and Powershell scripting
 - **Test Automation:** Created and packaged python wrapper libraries for testers to use internal testing tools and link to cloud servicing applications
 - **Cloud Servicing:** Responsible for deployment of test-automation-platform including asset reservation portal, servicing, and analytics reporting
 - **System Administration:** Troubleshooted Linux build errors, hardware failures, and network configuration problems across testing devices
- **S&C Electric** Chicago, IL
Software Engineer Intern *Sep 2017 - Dec 2018*
 - **Machine Learning:** Created machine learning models with python pandas and sklearn to predict downtime and failure causing events on injection molding machines
 - **Automation:** Created automatic SQL queries across multiple database sources to update department's reporting and analytics
- **Domtar** Nekoosa, WI
Software Engineer Intern *Jan 2017 - Aug 2017*
 - **Machine learning:** Used machine learning with python pandas and sklearn to determine causes for paper defects by analyzing time series data from paper machine and lab tests
 - **Automation:** Automated tracking of grade change data with C# application to pull data from storage and display and export to management.
 - **Development:** Created C# application to set machine tolerance limits and display alarms and data logs to operators on machine failures.
- **Blood Research Institute** Milwaukee, WI
Computer Vision Intern *May 2015 - Aug 2015*
 - **Image Recognition:** Created pipeline using computer vision software ImageJ to filter, cluster, and count cells on histology images.

PROJECTS

- **AutoGui:** Open source python and C# library for Windows GUI automation and testing.
- **RecorderSpy:** Windows automation element spy tool for use with AutoGui.
- **LeshanIOT REST API:** Python wrapper executing REST commands for the eclipse-leshan IOT project.
- **Midi2Go:** Hackathon project that converts a user's hummed tune into autotuned midi format
- **Stock Price Predictor:** Calculates pairs-bootstraps to show that momentum investing fails
- **Semi-Conductor Predictor:** Kaggle project uses machine learning to determine best predictors for conductivity
- **Cryptography Library:** Educational python library to encrypt, decrypt, and crack various ciphers
- **ChinesePod Webscraper:** Scrapes lesson materials of leading chinese instruction site

PROGRAMMING SKILLS

- **Languages:** Python, Java, C, SQL, Matlab, C# **Technologies:** AWS, TensorFlow, React, Git, Jenkins, Bash