Alex Lundberg

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Relocating to NY, NY at soonest job opportunity

Education

- **University of Wisconsin Madison** — Madison, WI
  B.S. Computer Science, Minor Math; GPA: 3.75/4.00 — *Sep. 2014 – May. 2019*

Experience

- **S&C Electric** — Chicago, IL
  DevOps Engineer Intern — *May 2018 - Aug 2018*
  - **Continuous Integration**: Created jenkins pipeline to hook with git commits, build and test on on-prem agents, then push results to email and reporting platform
  - **Test Automation**: Programmed restful python wrapper libraries over internal testing tools and packaged with pip and deployed using jenkins
  - **System Administration**: Setup and configured new testing machines. Troubleshooted Linux build errors, hardware failures, and network configuration problems across devices
- **S&C Electric** — Chicago, IL
  Data Analyst Intern — *Sep 2017 - Dec 2017*
  - **Machine Learning**: Created machine learning models with python pandas and sklearn to predict downtime and failure causing events on injection molding machines
  - **Analytics**: Programmed vba front-end and SQL queries for department's reporting and analytics
- **Domtar** — Nekoosa, WI
  Software Developer Intern — *Jan 2017 - Aug 2017*
  - **Scripting**: Reprogrammed unoptimal vb.net controls and added trend visualization scripts
  - **Development**: Automated tracking of grade change data with C# application to pull, clean, and display data 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**: Designed computer vision pipeline to filter, cluster and count cells on histology images.

Selected Projects

- **Momentum Investing Visualization**: Python visualization shows time span one on x axis and time span two on y axis for any company and time span to illustrate that momentum investing or its inverse fails
- **ETF Tax Loss Harvester**: Design algorithm using Python API to sell ETF's for tax loss then buy equivalent ETF to harvest tax losses automatically and avoid the wash rule
- **AutoGui**: Open source python and C# library for simple Windows GUI automation/testing using element properties.
- **RecorderSpy**: Windows automation element spy tool shows GUI element properties for use with AutoGui.
- **CI/CD Pipeline**: Jenkins pipeline provisions VM's on AWS with terraform, configures with Ansible, and builds vagrant boxes with packer on any successful commit.
- **Semi-Conductor Predictor**: Kaggle project uses machine learning to determine best predictors for conductivity
- **ChinesePod Webscraper**: Scapes lesson materials of leading chinese instruction site
- **Carrot Compiler**: Course project of a full compiler including scanner, parser, type/name checker, and code generator.

Programming Skills

- **Languages:** Python, Java, C, SQL, C# **Technologies:** Git, Jenkins, Linux, Terraform, Ansible, Selenium