

## EDUCATION

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

## EXPERIENCE

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- **CommonBond** New York, NY  
*DevOps Engineer* July 2019 - Current
  - **Continuous Integration:** Created and Maintained universal .gitlabci for company golang, java, python, javascript pipelines
  - **AWS Administration:** Managed AWS infrastructure with terraform and troubleshoot redshift, EC2, VPC, S3 issues from developers
  - **Kubernetes Administration:** Maintain, Upgrade, Improve kubernetes cluster performance and reliability
  - **Prometheus Administration:** Maintain, Upgrade, Improve monitoring capabilities with prometheus alerting and grafana monitoring
- **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

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- **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:** Scrapes 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

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