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Milwaukee, WI

EDUCATION

- **University of Wisconsin Madison**

B.S. Computer Science, Minor Math; GPA: 3.75/4.00

Madison, WI

Sep. 2014 – May. 2019

EXPERIENCE

- **CommonBond**

DevOps Engineer

New York, NY

July 2019 - Current

- **Continuous Integration:** Created and Maintained universal .gitlabci for company goolang, 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**

DevOps Engineer Intern

Chicago, IL

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**

Data Analyst Intern

Chicago, IL

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**

Software Developer Intern

Nekoosa, WI

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**

Computer Vision Intern

Milwaukee, WI

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:** 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.