

Aaron Kelly

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University of Wisconsin-Madison | Expected May 2019

B.S. Applied Math

- Minors in Computer Science, Leadership

Work Experience

Quad/Graphics | 2018 Sussex, WI

Software Development Intern – Optimization

- Worked on an Agile development team to build a model to solve a large scale optimization problem
- Achieved \$500,000/year in savings by implementing a clustering machine learning algorithm in C#
- Researched, developed, and tested potential improvements to the solution codebase including clustering validation methods
- Invited to give talk on convex optimization to 20+ member company-wide analytics group

Greenheck Fan Corporation | 2017 Schofield, WI

Manufacturing Engineering Co-op

- Analyzed manufacturing process to create \$125,000/year in savings and implemented capital project
- Delayed assembly capacity problems two years using advanced excel formulas to balance workloads
- Collected and organized packaging data to save 1,500 labor hours per year
- Performed time sensitive and detail oriented plant material management duties for five months
- Developed new graph theory based company method to map and reorganize plant layout

Forest Springs Camp and Conference Center | 2015 - 2016 Westboro, WI

Staff Counselor | 2016

- Managed staff life for over 110 high school through college age staff members
- Resolved staff conflicts throughout the summer and provided mentorship, discipline, and correction
- Created, and facilitated an original 10-week series of large group study sessions for 60 people

Counselor | 2015

- Led groups of 8-16 campers (ages 7-18) through weekly activities and facilitated discussions

Skills

- **C#, Java** – two semesters, **Julia** – one semester, exposure to **Python** and **SQL**. Pursuing further Computer Science classes
- Clustering using unsupervised machine learning algorithms in Accord.NET
- Coursework in Optimization, Linear Programming, and Stochastic Modeling
- Industry classes and experience in: Lean and 5s implementation, Value Stream Mapping, Preventative Maintenance, Change Management, Action Workouts, SAP

Service

- UW Badger Navigators student organization, 10-12 hours weekly
 - Leadership team member and three years of leading small groups
 - Freshmen recruitment and mentoring
- Our Wisconsin, two years – Facilitated Diversity & Inclusion workshops for groups of 75+ students