

Aaron Kelly

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University of Wisconsin-Madison, B.S. Applied Math | Expected December 2019

Work Experience

RateLinux | 2019 Madison, WI

Software Development Intern

- Researched documentation to optimize scaling of Microsoft Azure databases using Azure REST APIs.
- Support work for clients included custom integration code documentation and troubleshooting

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 at the intersection of multiple interacting internal processes.
- Achieved \$500,000/year in savings by implementing a clustering algorithm and validation in C#
- 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
- Developed new graph theory based company method to map and reorganize plant layout. Initiated a strategic plan to integrate the solution and gain buy-in from multiple levels of management

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

Staff Counselor | 2016

- Oversaw staff life, resolved conflicts, and provided mentorship for 110+ summer staff
- 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

- Experience in **C#** and **Java**. Exposure to **Julia**, **Python**, **SQL**, **Jupyter Notebooks**, and **Tableau**.
- Coursework in Optimization, Linear Programming, and Stochastic Modeling
- Industry experience: Lean and 5s implementation, Value Stream Mapping, Preventative Maintenance, Change Management, facilitating Action Workouts

Service

- UW Badger Navigators, four years - 10-12 hours weekly of leading small groups and mentorship
- Our Wisconsin, two years – Facilitated Diversity & Inclusion workshops for groups of 75+ students