

Aaron Kelly

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

Work Experience

Jahn Research Group | 2019 Madison, WI

Research Specialist

- Leading authorship team for US Special Forces report on the strategic relevance of Food Systems.
- Responsible for research, writing, and communication.
- Evaluating emerging disaster tech startup companies for investment funding.

RateLinx | 2019 Madison, WI

Software Development Intern

- Led initiative to optimize dynamic scaling of Microsoft Azure databases using Azure REST APIs.
- Performed custom updates to client code base, wrote documentation, and provided support.

Quad/Graphics | 2018 Sussex, WI

Software Development Intern - Optimization

- Built a large scale non-linear manufacturing optimization model on an Agile development team.
- Achieved \$500,000/yr in savings by implementing 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/yr 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.

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

2019-Present: City of Madison Food Policy Council Member

2017-2018: Our Wisconsin. Facilitated Diversity & Inclusion workshops for groups of 75+ students

2015-2019: UW Badger Navigators. 10-12 hours weekly of leading small groups and mentoring