# Catherine Henry

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## SKILLS SUMMARY

- **Programming languages**: Java, R, Kotlin | **Software**: Excel, Microsoft Project, Vaadin, Google OR-Tools, SCIP | **Engineering**: Data Analysis, Optimization, Simulation, Operations Research, | **Professional:** Project Management, Technical Communication, Leadership

## EDUCATION

**Bachelor of Industrial Engineering and Operations Analytics** Expected: May 2028

- University of Arkansas, Fayetteville, AR

**Minors**

- Engineering Management and General Business

## PROJECTS

**Project Management Charity Fundraising Event - Rome, Italy** Summer 2026

- Completed 5 weeks at the University of Arkansas Rome Center, collaborated in a four person team to develop a charity fundraising event
- Developed a work breakdown structure, diagrams, and Gantt chart in Microsoft Project to sequence tasks, build budgets, schedules, and project scope

**Arkansas Volleyball Team Optimization** Spring 2026

- Developed an interactive Java application using Vaadin to analyze real volleyball statistics and identify an optimal six-player Arkansas lineup
- Formulated and solved a binary optimization model using SCIP, then implemented a win probability and a set-by-set game simulator

## WORK EXPERIENCE

**Children's Swim Coach - Mount Sequoyah, Fayetteville, AR** July 2020- August 2025

- Worked 15-20 hours/week, Taught water safety, competitive techniques, and confidence building strategies to young swimmers
- Designed group training plans based on skill levels for techniques of different strokes.

**Kanakuk Kitchen Staff - Kanakuk Seven, Lampe, MO** May 2025- August 2025

- Assisted with cooking meals, cleaning, and providing food service to 400+ people three times a day
- Worked approximately 8-hour days in a high volume, fast paced environment

## LEADERSHIP EXPERIENCE

**Eagle Scout, Troop 46, Fayetteville, AR** Spring 2020 - Spring 2024

- Led a service project involving 30+ volunteers to plan, coordinate, and construct 16 benches for community use
- Developed a project plan, delegated responsibilities, coordinated volunteer teams, and managed materials and project activities through completion

**Academic Achievements Chair - Kappa Delta, Zeta Gamma** Spring 2025 - Fall 2025

- Developed a weekly recognition program within my Greek sorority, celebrating members excelling in academics

**Sisterhood Enrichment Training Leader - Kappa Delta, Zeta Gamma** Spring 2026 - Present

- Train and mentor members responsible for guiding new sorority members to and from chapter events
- Provide instruction on organizational procedures, expectations, and leadership responsibilities