CODY FREHR

437 Douglas Ave, Naperville, IL 60540
847-946-6200 • cfrehr@gmail.com

EDUCATION

University of Wisconsin-Madison
B.S., *Industrial Engineering***,** *May 2016*
- 3.6 Major GPA
- Dean's List: Fall 2014—Spring 2016

*Certificate***,** *Computer Sciences***,** *May 2016*

RELEVANT COURSES

Machine Learning
Artificial Intelligence
Advanced Optimization Modeling
Statistics, Probability Theory, Design of Experiments

SOFTWARE EXPERIENCE

Programming:	R, Java
Graphical:	Tableau, Minitab
Algebraic:	GAMS, MATLAB
Other:	Excel, PowerPoint

PROJECT WORK

Market Research for HealthWise Coffee
- Mined frequent patterns and associations from product purchasing data to drive an improved product recommendation engine and strengthen targeted marketing tactics.
- Performed a visual investigation of data via Tableau to help HealthWise better understand their product and user bases.

Optimization Model for Improving UW Engineering Building Evacuation Time
- Built a discrete-time network flow model to optimize the routing of building occupants during an evacuation situation.
- Modeled network after building floor plans; pulled data from drawings, built algebraic model in GAMS, and solved the system using simplex method and mixed integer linear programming.

⟹ *Extended course list, coursework, and projects available via* codyfrehr.com

ENGINEERING EXPERIENCE

ITW Hi-Cone
*Manufacturing Engineering Intern***,** *May 2015—August 2015*
- Assembled a machine purchasing guide that will catalyze the expansion of manufacturing operations abroad and delivered to VP.
- Built an equipment-specific encyclopedia to record the undocumented wisdom and expertise of senior engineers and maintenance crew, helping to ensure the continued success of manufacturing operations into the future.

OTHER EXPERIENCE

CF Landscaping
*Owner and Operator***,** *May 2004—August 2014*
- Built the business from scratch by successfully marketing services and maintaining a growing clientele. Earned referrals based on dependability, customer interaction, and quality of work.