Addison Klinke
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OBJECTIVE: Seeking a full-time data science position that can utilize my modeling skills, statistical knowledge, and creativity to discover valuable business insights contained in large stores of data.

EDUCATION

MS in Mechanical Engineering (GPA: 3.89) Cleveland, OH
Case Western Reserve University, August 2018
Thesis: "Data-Driven Algorithm for Quantifying Photovoltaic Backsheet Cracking and Modeling Degradation"
1 journal article and 3 conference presentations (all first author)

BS in Mechanical Engineering *summa cum laude* (GPA: 4.00) Cleveland, OH
Case Western Reserve University, May 2017
University Scholarship recipient, BΘΠ Vice President of Programming
German minor (proficient reading/writing, basic conversation skills)

RELEVANT SKILLS

- **Programming Languages:** Python, R, Matlab, C++ and their integrated development environments
- **Machine and Deep Learning:** neural networks and ensemble methods developed in scikit-learn and Keras
- **Business Acumen:** 3 years owning online business, responsible for market and profit and loss analyses
- **Data Visualization and Dashboards:** Microsoft Power BI, ggplot2, and Tableau
- **Agile Software Development:** Git repositories, function documentation and packaging, Bash terminal
- **Databases and Distributed Computing:** SQL, Excel, Hadoop, and Google Cloud Platform

PROFESSIONAL EXPERIENCE

Solar Durability and Lifetime Extension Center Cleveland, OH
Data Science Researcher, October 2016 – May 2018

- Designed data pipelines to automate machine learning extraction of crack features in solar panel backsheets
- Implemented cycle counting and clustering algorithms on weather data time series to quantify climates
- Utilized parallel computing clusters and a custom SLURM job architecture to decrease run time
- Collaborated nationwide with 5 other institutions on a Department of Energy SunShot grant
- Managed multiple undergraduate students working on data acquisition

Janicki Industries Hamilton, WA
Mechanical Engineering Intern, May 2016 – July 2016

- Analyzed data from customers' CAD models and compared to past projects to determine part pricing
- Researched competitors' and developed a strategic plan to pursue a multi-million dollar military contract
- Designed an autoclave cart to minimize processing time for a series of 24 large, complex composite parts

Cascade Designs Seattle, WA
Mechanical Engineering Intern, May 2015 – August 2015

- Developed thermodynamic models and ran calculations in Matlab for an emerging portable stove project
- Conducted rigorously standardized experiments to validate theoretical models
- Communicated observations from thermal imaging data to management in technical reports
- Studied field failures of snow shovels to improve manufacturing processes and product robustness

Tarptent Ultralight Shelters Nevada City, CA
Product Design Intern, May 2014 – August 2014

- Led the design of key improvements to the Bowfin, MoTrail, and Rainshadow3 models
- Developed a patent-pending trekking pole support system to reduce weight and increase head room
- Modeled designs in CAD and sewed prototypes for field testing and design validation
- Integrated carbon fiber support structures into tent fly to decrease setup time and overall weight

HONORS AND AWARDS

- **Gustav Kuerti Award** for "demonstrating the highest level of scholarship" May 2017
- **Florence Keuerleber Prize** for "excellence in the study of a modern language" May 2017
- **Max Kade Award** for "excellence in German" April 2015
- **BΘΠ Best Chapter Officer** April 2015