

Abhi Devathi

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EDUCATION

Case Western Reserve University **Cleveland, OH**

Master of Science, Applied Mathematics – GPA 4.0 *May 2019*

Bachelor of Science, Applied Mathematics – GPA 3.6 *May 2019*

- Junior/Senior Scholarship (Case Alumni Association) – Received \$5800 of scholarship from the Alumni Association through advisor nomination
- SURES Scholarship – Received \$3500 to conduct data science study on polyurethane during Summer 2017
- Pi Mu Epsilon – Honors fraternity for mathematics; serving as treasurer for two years (2017 – present)

RELEVANT COURSEWORK

Bayesian Scientific Computing	Numerical Optimization
Stochastic Modeling	Computational Inverse Problems
Derivatives and Risk Management	Computational Mathematical Modeling
Data Mining and Pattern Recognition	Data Structures

PROFESSIONAL

The Equity Engineering Group **Shaker Heights, OH**

(Mid-Size Engineering Consulting Firm)

Applied Research and Development Intern *May 2018 – Present*

- Impressed CEO within 3 weeks of internship by delivering a new research driven strategy to solve temper embrittlement problem worth millions of dollars
- Created and presented physical models using python to CEO for predicting temper embrittlement, improving R^2 by 0.3 on noisy data
- Created web-app, using Python, JS and HTML/CSS, for oil refineries to demonstrate effectiveness of my models on their temper embrittlement data

Solar Durability and Lifetime Extension Center **Cleveland, OH**

(Degradation Research Lab at CWRU)

Data Science Research Assistant *January 2017 – December 2017*

- Performed self-led data-driven degradation study, on polyurethane (PUR) from design to reporting
- Wrote script that combined data from different sources (text, images, numeric) into one tidy data frame
- Created automated markdown to automate the reporting of the study and highlighted significant findings

LEADERSHIP

Beta Theta Pi – Lambda Kappa Beta Chapter **Cleveland, OH**

(40-Member Social Fraternity Chapter)

Vice President *December 2016 – December 2017*

- Increased member engagement by 25% by planning events that addressed the needs of disengaged members
- Ran EDA on attendance data and member interview data (text analysis) to identify the weak spots of the chapter and targeted brotherhood events to address those issues
- Kept track of a \$3000 budget using Tableau to communicate our budget to the rest of the chapter

SKILLS

Proficient: Python, R, Java, Matlab, SQL, Plotly, Tableau, Excel (VBA)

INTERESTS

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- Tutoring – Teaching math (Calculus, Statistics, Linear algebra) to students since high school
 - Cello – Studying since 2008; I play pop music for strings (A Nickel for Your Thoughts)