

Matthew Munns

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EDUCATION

Georgia Institute of Technology
Masters of Science in Statistics

January 2019 - May 2020

Georgia Institute of Technology
Bachelors of Science in Industrial and Systems Engineering

August 2014 - December 2018
Highest Honors (Major GPA: 3.70)

EXPERIENCE

United Technologies Corporation
Automation Engineer

September 2019 - Present

- Responsible for writing automated tests in Python to ensure software platform meets specifications
- Working with developers and product designers to define necessary tests

The Home Depot
Pricing Analytics Intern

Summer 2019

- Evaluated the effectiveness of market interventions and provided in-depth analysis of the successes and failures with the goal of improving the effectiveness of future programs
- Used machine learning and statistical methodologies to complete analysis

Micron Technology
Industrial Engineering Intern

Summer 2018

- Created a website for internal use to generate PowerPoint presentations from database information, saving the IE Planning department 300+ hours yearly
- Self-taught relevant web development technologies over the summer to complete this project
- Completed code review and documentation process to ensure upkeep of the site

PROJECTS

Assortment Planning Senior Design with The Home Depot

I worked with a team of 8 students to develop an assortment planning strategy that incorporated big data. I leveraged store traits data and implemented the k-Prototypes algorithm to create a more robust clustering methodology. This led to a predicted 3% lift in sales.

Bayesian Tumor Analysis and Prediction

I implemented a Bayesian logistic regression model in Python to analyze breast cancer tumor data. I evaluated sample data points and predicted the probability that the given sample was a malignant or benign tumor, also showing uncertainty through Bayesian methodology.

SKILLS

Programming	Python, SQL, R, C
Optimization and Modeling	CPLEX, Simio, Xpress-IVE, Tableau
Web Development	flask, Docker, PostgreSQL, HTML, CSS, React (learning)

PERSONAL

Member of the Georgia Tech Track and Field and Cross Country teams from 2014-2018, 5000m time in the top 5 in school history

Interested in basketball (Go Hawks!), pro Track and Field, reading