

Ethan Shen

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Education

Duke University – Trinity College of Arts and Sciences | GPA: 3.85/4 Durham, NC

Major: Bachelor of Science in Statistical Science May 2021

Minors: Mathematics and Computer Science

Awards: HackDuke Winner (Inequality – Fall '18), Dean's List with Distinction (Spring '19, Fall '19), Datathon Winner (Fall '19)

Related Coursework: Introduction to Databases, Linear Algebra, Differential Equations, Introduction to Real Analysis, Bayesian and Modern Statistics, Mathematical Statistics, Probability, Regression Analysis, Statistical Computing, Data Mining and Machine Learning, Probabilistic Machine Learning

Computer Skills

- **Programming:** R (dplyr, ggplot2, purrr, rvest, shiny), SQL, PL/SQL, Tableau, Python, Java
- **Database Technologies:** Oracle SQL, MySQL, MongoDB, ER Diagrams

Relevant Projects

Predicting North Carolina High School Outcomes October 2019 – December 2019

- Created various models to determine what performance and demographic factors of NC high schools are most related to success
- Wrangled data and created visualizations to examine significant variables

Stock Price Trends April 2019 – May 2019

- Utilized R to web scrape stock prices data using the Yahoo Finance API to provide minute-to-minute trends
- Created Shiny app and dynamic visualizations to compare stocks and display trends over time

Women Who Win October 2018

- Created website with web scraped data and Shiny apps in 24 hours to provide opportunities for women to engage in politics in the Research Triangle area
- Won first place under Inequality track

Work Experience

BlackRock New York, NY

Incoming Summer Analyst - Financial Markets Advisory June 2020 – August 2020

Fidelity Investments Cary, NC

Data Engineering Intern on Common Data Environment Team May 2019 – August 2019

- Created dynamic visualizations and dashboards for identifying business trends using Oracle SQL and Tableau
- Modified team's Confluence page by condensing and updating documentation to facilitate onboarding for new team members
- Collaborated on teams and gained knowledge of Agile methodologies and Scrum practices

Duke University Statistics Department Durham, NC

Undergraduate Teaching Assistant for STA 210: Regression Analysis January 2019 – Present

- Hold weekly office hours, answer questions on Piazza, grade homework and exams, and provide feedback for all assignments
- Assist with weekly in-class activities, such as the implementation and interpretation of regression models

Leadership Experience

Hoof 'n' Horn Durham, NC

Assistant Music Director, Rehearsal Pianist October 2017 – Present

Shows: Company, The Addams Family (AMD), The Producers, In the Heights, The Wiz (RP)

- Teach the musical aspects of the show to the cast and responsible for casting the necessary musical talent
- Coordinate with orchestral director regarding any modifications or notes on the score
- Communicate with Production Council on matters ranging from scheduling extra rehearsals to reserving rehearsal spaces

Duke Launch Durham, NC

Launch Agent March 2018 – May 2019

- Helped establish 18 student groups and campus organizations by providing important resources
- Assisted with Fall Activities Fair by assigning tables to student groups and providing guidance to students navigating the fair
- Hosted and planned workshop "Addressing Mental Health as a Student Leader"

Project Arts Durham, NC

Logistics Coordinator, Formerly Music Crew Leader December 2017 – August 2019

- Planned arrival process and arranged housing for 43 incoming first-year students
- Communicated with Program Directors and drivers to coordinate driving, parking, and timing for each crew
- Introduced incoming first-year students to the music and larger arts communities at Duke and in Durham