Ethan Shen

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Education

Duke University – Trinity College of Arts and Sciences | GPA: 3.82/4 — 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, Bayesian and Modern Statistics, Mathematical Statistics, Probability, Regression Analysis, Statistical Computing, Data Mining and 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

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

Winning an ATP Tennis Match — November 2018 – December 2018
- Created logistic regression models in R to determine the probability of winning an ATP tennis match
- Manipulated data and created visualizations to examine significant variables

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 Financial Markets Advisory Summer Analyst — 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 midterm exams, and provide detailed 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 2018
- 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