

Benjamin Allen

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EDUCATION

Rice University, Houston, TX

Expected May 2025

Bachelor of Science in **Statistics** and Bachelor of Arts in **Finance**

Minors: **Data Science** and **Financial Modeling** | Current GPA: 3.92 | President's Honor Roll: Spring 2022, Fall 2022, Spring 2023

Relevant Courses: Honors Linear Algebra, Statistical Machine Learning, Data Visualization, R for Data Science, Linear Regression

PROJECT EXPERIENCE

Receipt Matching Through Image Recognition

January 2023

- Won 1st place and prize worth ~\$1,000 for team of 3 that took place in hackathon-style competition over less than 48 hours.
- Constructed data pipeline capable of matching image and OCR data of receipts to user-generated transaction records with a testing accuracy of 89.5%.
- Wrote over 700 lines of Python code to clean abnormally noisy user data, create data visualizations, and generate programmatic animation to present data pipeline to room of more than 100 people.

Modeling and Forecasting U.S. Inflation

October 2022 – November 2022

- Created ensemble neural network to model 65 years of U.S. inflationary data and forecasted inflation 1 year in advance.
- Sourced economic time series data from 7 datasets and combined with autoregressive neural network model to achieve an average predictive error of 0.3% and a max error of 0.9%.
- Compiled a 19-page research report and professional slides to present project findings to a group of 30 people.

Google Data Analytics Certificate Capstone

August 2022

- Analyzed 12 months of trip data from a Chicago bike-share company using R for data cleaning, analysis, and visualization to find measurable differences between 2 customer types to aid in a new marketing campaign.

COVID-19 Health Effects and Social Media

February 2022 – April 2022

- Collaborated in a team of 5 using COVID-19 case data and Twitter sentiment data with 24 million and 198 million observations to gain insight into relationship of number of tweets and COVID-19 cases.
- Presented findings to group of 25 people with interactive visualizations using the Shiny package of R.

PROFESSIONAL EXPERIENCE

Technology Teaching Assistant

September 2021 – Present

Rice University, Houston, TX

- Collaborate with professors and campus event organizers to setup classroom technology, solve general hardware and software problems, and manage broadcasting and recording for 15+ university courses.

Data Analyst

June 2023 – August 2023

Walsh Marketing Group, Southbury, CT

- Performed web scraping on Google map results and chamber of commerce websites to aid in marketing efforts.
- Combined SQL queries with MS Excel and extensive data cleaning to find over 1,200 email addresses of potential clients.

IT Specialist

August 2020 – June 2021

Canyons School District, Sandy, UT

- Enrolled 1,000+ Chromebooks into device network to aid in giving every student in the district a laptop for remote learning.
- Inventoried 350 monitors, laptops, keyboards, etc. using MS Excel.
- Deployed multiple software packages including graphic design and network management software for over 100 computers.

EXTRACURRICULAR ACTIVITIES

Vice President of Technology Solutions | GRC Consulting

October 2022 – Present

- Direct two teams of 6 working on 3 projects involving data analysis, website redesign, and migration for multiple nonprofits.
- Constructed a Tableau dashboard combining demographic and time series data into various visualizations and tables to generate insights into resource allocation and organizational success of an educational nonprofit.

Portfolio Review Director | Rice Undergraduate Investment Fund

May 2022 – Present

- Analyze portfolio performance for an investment fund with ~\$40,000 AUM and present portfolio review to board of professional investors every semester.

Data Science Mentor | Rice Data Science

September 2022 – November 2022

- Taught group of 7 college students basic data science practices and the data science pipeline through direct work with a dataset about the nutritional content of Starbucks drinks and earned 2nd place overall for end-of-semester presentation.

SKILLS

- Certifications: Google Data Analytics Certificate, MOS Certified in Word, PowerPoint, and Excel
- Programming Languages: Python, R, SQL, HTML, CSS, Java
- Language: English (Native), German (Intermediate)