

Parker Barnes

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WORK EXPERIENCE

Plinth Analytics

Oct 2023 – Present

Data Scientist

New York, NY (Remote)

- Developed a fully modularized shiny application on top of an existing RWD cohort builder package. Enables users to build cohorts asynchronously using the {crew} package.
- Built a custom cohort builder package for a client, leveraging S3 to represent different snowflake data models and a consistent “tidy” grammar.
- Created a modular R package that facilitates reproducible ROI analysis pipelines across the client’s customers (businesses). Enables analysts to both experiment locally and deploy at scale in Airflow pipelines

Recora

May 2023 – Oct 2023

Data Scientist (Contract)

New York, NY (Remote)

- Overhauled existing data pipelines to a more robust and maintainable framework using the targets package; deployed a dashboard to monitor pipelines
- Migrated existing Shiny dashboards to a modularized and updated framework, boosting efficiency, maintainability, and readability
- Consulted with several departments and developed dashboards to fit their specific needs. In one of which I uncovered new customer enrollment funnel and cancellation trends.
- Built a robust and automated targets pipeline to deliver data insights on a user-defined cadence. Used the {slackr} package to send messages and {googlesheets4} to monitor signup-sheet
- Operated in a consulting capacity to help reign in long-term data strategy. Devised and helped implement a new team workflow modeled on agile and git flow.

Nursa

May 2022 – Jan 2023

Data Scientist

Murray, UT (Hybrid)

- Trained and deployed a stacked machine learning model as an API using docker and AWS. Outputs and writes live predictions of job request probability to a database. Created an interactive shiny app to tinker and explore the model and its outputs
- Designed an interactive R Shiny dashboard that provides a geographic view of clients, users, and their individualized metrics. Utilized by the sales team and C-Suite to track both historical trends and future growth opportunities
- Trained a recommendation engine that optimizes individual users’ job feeds. Embedded in a shiny app to demo
- Automated monthly Stripe financial statements by calling Stripe API and formatting report using rmarkdown and the gt package. Pipeline embedded in a shiny app for interactivity
- Developed internal R package that interfaces with proprietary databases

International Academies of Emergency Dispatch (IAED)

May 2021 – Jan 2022

Data Analyst

Salt Lake City, UT

- Processed data requests for various stakeholders by querying databases and visualizing in PowerBI
- Re-engineered automated data pipelines for public-facing dashboards. Applied STAR Schema principles to data structures, effectively reducing memory usage and computation by 90%
- Automated agency data monitoring process, saving ~2 hours of work/day

EDUCATION

University of Utah, Eccles School of Business

May 2022

MS, Business Analytics

Salt Lake City, UT

- 3.93/4.0 GPA, Lean Six Sigma Green Belt Certification
- Capstone Project: Interactive web app utilizing ML to predict customer conversion

Brigham Young University

Dec 2020

BS, Statistics (Emphasis, Data Science)

Provo, UT

- Minors in Mathematics, Computer Science
- 3.80/4.0 GPA

SKILLS

- **Data Wrangling:** R/tidyverse (dplyr, tidyr, etc.)
- **Machine Learning:** Supervised/unsupervised (tidymodels), AutoML (H2O), bayesian modeling (rstan, multilevelmod), Model Interpretability (DALEX), time-series (modeltime, timetk)
- **Data Visualization:** ggplot2, echarts4r, plotly, leaflet
- **Reporting/Dashboarding:** RMarkdown/Quarto, targets, shiny (rhino, golem, bslib), PowerBI
- **MLOps:** GitHub, Docker, AWS (ECR, ECS), plumber, vetiver, renv
- **SQL:** PostgreSQL, Redshift, SQL Server, dbplyr
- **IDEs:** RStudio, VSCode, Jupyter, PyCharm
- **Statistics:** Distributions, hypothesis testing, probability, bayesian inference, non-parametric methods
- **Other Skills:** recommendation engines (implicit, lightFM, RankFM), network analysis (igraph, tidygraph), package development (devtools, usethis), NLP (tidytext, textrecipes), OOP (S3, S7)