Parker Barnes

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WORK EXPERIENCE

Recora   **May 2023 – Present**
Data Scientist (Contract)   *New York, NY*
- Overhauled existing data pipelines to a more robust and maintainable framework using the targets package; deployed dashboard to monitor pipelines
- Migrated existing Shiny dashboards to a modularized and updated framework, boosting efficiency, maintainability, and readability
- 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
- Devised and helped implement a new team workflow modeled on agile and git flow. Operated in a consulting capacity to help reign in long-term data strategy

Nursa   **May 2022 – Jan 2023**
Data Scientist   *Murray, UT*
- Trained and deployed a stacked machine learning model as an API using docker and AWS. Outputs live predictions of job request probability and writes to a database
- Designed an interactive R Shiny dashboard that provides a geographic view of clients, users, and their individualized metrics. Shared with highest levels of leadership (CEO/COO), used 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 to be approved for production
- 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

PILYTIX   **Jan 2021 – May 2022**
Data Scientist   *Austin, TX*
- Remodeled a client's A.I. pipeline by revamping SQL scripts to more accurately capture useful variables
- Trained and evaluated Bayesian hierarchical models to effectively predict "wins" in sales opportunities
- Contributed to proprietary R packages and analysis framework to facilitate more efficient and standardized workflows across clients

International Academies of Emergency Dispatch (IAED)   **May 2021 – Jan 2021**
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
- Gameday Twitter Ad Competition
- 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, Phi Eta Sigma Honor Society, Mu Sigma Rho Statistics Honor Society

SKILLS

- **Data Wrangling**: R/tidyverse (dplyr, tidyr, etc.), python (pandas, numpy), Excel
- **Machine Learning**: Supervised/Unsupervised (tidymodels, scikit-learn), AutoML (H2O), Model Interpretability (DALEX), Time-Series (modeltime, timetk)
- **Data Visualization**: ggplot2, echarts4r, plotly, leaflet, seaborn, matplotlib
- **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)
- **Interests:** Running, hiking, skiing, books, dogs, badminton, spikeball, meditation, budgeting/finance, economics, current events