Brendon Jerome **Butler**

DATA SCIENCE · DATA ENGINEERING

✉ brendonjeromebutler@gmail.com | 🏠 brendonjeromebutler.com | 🐱 butlerbj | 💼 brendon-jerome-butler

Experience

Ericsson   *Irvine, CA*
DATA SCIENCE INTERN, NETWORK ENGINEERING   *March 2020 - Present*

University of California, Irvine   *Irvine, CA*
GRADUATE RESEARCH FELLOW   *September 2016 - Present*
- Designed and conducted online and in-person experiments investigating how humans retrieve information from memory
- Built hierarchical linear and logistic regression models in R, Python, and SAS to predict how accurately humans retrieve information from memory under different task demands with less than 5% margin of error
- Published findings in peer-reviewed academic journals and presented findings at conferences
- Secured over $100,000 in research funding via grants and external fellowships

Insight Data Science   *Los Angeles, CA*
DATA SCIENCE FELLOW   *September 2019 - December 2019*
- Built NBA-GameFinder, a web app that helps NBA fans pick the best game to attend based on their preferences
- Retrieved the past five years of NBA statistics using Python and stored the data in a PostgreSQL database
- Engineered dozens features to uncover the best predictors of team success
- Predicted 2019-20 NBA season results using logistic & linear regression
- Designed and deployed an interactive web app using Flask, Gunicorn, Bootstrap, and AWS

Irvine Company   *Irvine, CA*
DATA SCIENCE & ENGINEERING INTERN   *June 2019 - July 2019*
- Developed time series models (SARIMA, SARIMAX, Prophet) to forecast tenant churn using R and Python
- Updated production code in Alteryx to improve forecasts
- Made dashboards in Tableau to visualize forecasts

Education

University of California, Irvine   *Irvine, CA*
PH.D. IN PSYCHOLOGICAL SCIENCE   *September 2020*
M.A. IN SOCIAL ECOLOGY   *May 2017*

University of California, Riverside   *Riverside, CA*
B.A. IN PSYCHOLOGY   *June 2012*

Projects

Data Engineering Nanodegree
UDACITY, INC.
- Used ETL to build databases in PostgreSQL and Apache Cassandra
- Created cloud-based data warehouses on Amazon Web Services (AWS)
- Stored big data in a data lake and queried it with Spark
- Scheduled, automated, and monitored data pipelines using Apache Airflow. Ran data quality checks, tracked data lineage, and worked with data pipelines in production.

Technical Skills

Programming: Python, R, SQL

Machine learning techniques: Hierarchical linear and logistic regression, classification, clustering, feature engineering, dimensionality reduction

Tools and packages: Pandas, Numpy, SciPy, scikit-learn, Flask, Bootstrap, AWS

Data visualization: Tableau, matplotlib, Seaborn, ggplot2

Research skills: Experimental design, hypothesis testing, A/B testing

Other software/statistical packages: SAS, STATA, SPSS, Alteryx, Qualtrics, ArcGIS, LaTeX