Brendon Jerome **Butler**

DATA SCIENCE · DATA ENGINEERING

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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.
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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