

# Brandon J Griffin

**Data Analyst and Data Scientist**

**San Francisco, CA**

[Portfolio](#) | [LinkedIn](#) | (775) 240-9300 | [BranJGriffin@gmail.com](mailto:BranJGriffin@gmail.com)

With an academic background in physics and 5 years of experience in Data Analytics and Data Science, I'm passionate about visualizing and extracting key insights from complex datasets. In 2018, I happily relocated to the Bay Area as a STEM researcher where I'm now looking to bring my expertise to a high-growth environment building world-class, data-driven products.

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## EDUCATION

**University of Nevada Reno**

**Advisor: Dr. Joshua B. Williams**

***M.S. Physics - Aug 2019***

***B.S. Physics, Math Minor - May 2014***

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## SKILLS

**Technical:** Python, SQL, Tableau, Pandas, NumPy, Scikit-learn, SciPy, Statsmodels, Matplotlib, Seaborn, Plotly-Dash, Keras, TensorFlow, NLTK, Excel, Jupyter, Visual Studio, VS Code, Heroku, Git.

**Analytics:** Statistical inference and modeling, statistical mechanics, loss function analysis, multivariable calculus, differential equations, linear algebra, real-time analytics.

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## EXPERIENCE

**Lawrence Berkeley National Laboratory, Berkeley, CA**

**Feb 2021 to Present**

**Data Analyst - Freelance Project** [GitHub README](#) | [Heroku Web App](#)

- Developed open-source visualization tools, built an interactive dashboard in Python with Plotly-Dash, validated data quality, and established infrastructure for automated reporting.

**General Assembly, San Francisco, CA**

**Sep 2020 to Dec 2020**

**Data Scientist - Apprenticeship**

- Statistical Modeling in Python with Feature Engineering: Employed machine learning (ML) algorithms to predict the sales price of real-estate and reduce RMSE by at least 36%.
- Democratizing Autonomous Vehicle R&D (Group Project): GPU accelerated training of ML models, via GCP cloud solutions, to simulate self-driving cars.
- Time-Series analysis of stock market data and ARIMA modeling to predict the impact of global financial news sentiment on closing prices for leading companies in the energy sector.

**U.S. DOE Office of Science, Berkeley, CA**

**Jun 2018 to May 2019**

**Research Fellow, Advanced Photo-injector Experiment**

- Applied statistical methods to investigate potential sources of insight for compatibility with existing technological limitations, and prioritized those most optimally suited for quantitative analysis.
- Collaborated across cross-functional teams, fabricating improvements to cutting-edge data-acquisition systems and improving scalability of automated data processing techniques.
- Presented insights to major stakeholders at the 50th Annual Meeting of the American Physical Society Division of Atomic, Molecular and Optical Physics.

**Nevada System of Higher Education, Reno, NV**

**Jun 2016 to May 2018**

**Graduate Research Assistant, Atomic Molecular and Optical Science Group**

- End-to-End Engineering: Spearheaded design, construction, and deployment of a \$500,000 computational imaging apparatus, culminating in successful commissioning, by demonstration of overall performance, through approved experiments at a U.S. National Laboratory.
- Implemented critical understanding of interacting components, and functional impact each had on overarching system functionality, through contributions to design and technical documentation.