

# CARL GRIFFIN

## Data Scientist

I am a critical thinking Data Scientist with a proven track record of adapting seamlessly to new technologies and processes that achieve excellent results. My professional background combined with my education has equipped me with a versatile skillset actionable on any data driven challenge.

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### TECHNICAL SKILLS

Tableau · SQL · Python · Pandas · Matplotlib · Scikit-learn · Numpy · Seaborn · Machine Learning · Github · Jupyter Notebook · Spark

### EDUCATION

#### Codeup San Antonio Certificate of Completion

Fully immersive, project-based 22-week data science program. Codeup provides students with 670+ hours of expert instruction in applied data science.

#### University of Texas - Austin BA - Computer Science

### DATA SCIENCE PROJECTS

#### Tech Blues - Improving Mental Health in Tech Capstone Project

September 2021

Real world survey data about mental health in the technology industry was used in a statistical analysis to identify what factors in the workplace have the most impact on an employee's mental health and workplace performance. Using encoded data, we were able to predict instances of mental health interference in the workplace with an accuracy of 83% vs a baseline score of 63%. We were then able to use that prediction to make suggestions on how a company could improve the quality of life and morale for their employees.

#### Natural Language Project

August 2021

A collaborative effort to make use of Pandas, Matplotlib, BeautifulSoup, and NLTK to acquire, prepare, and explore the contents of readme files scraped from Git Hub repositories referencing most common coding languages. After normalizing and vectorizing the text, we created a Support Vector Classifier using the lemmatized data utilizing the TD/IDF method. Results of the modeling were 82% accuracy vs 38% baseline score.

#### Anomaly Detection Project

July 2021

A collaborative effort of exploration of the Codeup database containing the curriculum access logs for different user id's and their corresponding IP addresses in order to detect anomalies of webpage accesses.

#### Regression Analysis Project

June 2021

SQL Ace was used to query and acquire relevant observations and then Pandas, Seaborn, feature engineering, and a polynomial regression model was used to determine drivers of tax values of single-unit properties in Southern California.

#### Zillow Clustering Project

June 2021

Used SQL Ace to query and acquire relevant observations from a dataset of 70,000 southern California residences. Through the use of K-Means clustering, a linear regression model was built to predict log error on Zillow Zestimates.

### EMPLOYMENT BACKGROUND

#### Software Test Engineer Aerotek/KCI

2019-2020

Performed user acceptance testing for the integration of proprietary software in conjunction with Salesforce.

#### Onsite Coordination and Dispatch Management Insight Global/Hewlett Packard Enterprises

2016-2019

Ensured Customer Engineers were onsite at the right time with the right parts to perform hardware repairs on Hewlett Packard servers through Salesforce. Collaborated with the customer to ensure Customer Engineer had proper onsite clearance.

#### Technical Customer Support AT&T Uverse

2015-2016

Provided technical support to Uverse customers and promoted to the White Glove team for repeat callers.

**Foreign Exchange Trader****2004-2015**

Worked as a self-employed trader by analyzing data through proprietary charting software.

**SOFTWARE TEST ENGINEER****1987-2004****IBM**

Management of 15 test suites whose purpose was to perform regression testing on 25 client/server machines.

Test suite coverage included LAN/WAN, TCP/IP, DHCP and IP Security. Automated test suite was written in KSH, C and PERL.

Developed AIX kernel bringup software written in C.

AIX Customer Support for kernel and commands.

Developed applications software written in C that included Hotplug that allowed hot swapping of adapter cards.

Developed Capacity Upgrade on Demand applications written in C that allowed customers to upgrade the capacity of their machines without having to buy new servers, a savings of 75%.

Led a suite of 10,000 automated test cases written in C, AWK and KSH.

Ported the test suite over to 64-bit which was done in less than 3 months.

**SOFTWARE ENGINEER****1981-1987****LOCKHEED MISSILES AND SPACE**

Software development in C and C++ for military contracts under a Secret Clearance.