

# Gregory Paul Albarian

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## Summary

*I am continuously learning independently and within my over 3 year career to produce results in creating analytical conclusions, developing machine learning algorithms, and cleaning data*

## Professional Experience

### **Junior Python Developer | SDLC Technologies | Remote | April 2024 to Present**

- Have tested and modified over 100 coding explanations and programs written in Python, SQL, C++, and other programming languages generated by a Fortune Tech 10 company's LLM
- Review the LLM's explanations for code being outputted
- Data curated by my team resulted in a 15% increase in the LLM's accuracy

### **Support Engineer | Qualcomm Inc. | San Diego, CA | May 2022 to December 2023**

- Built an internal labelling tool in Python to increase productivity for eye gaze data entry by 60%
- Wrote Python code to automate the settings of cameras and lights to render 3D objects saving 40% of the time to process training in the data pipeline
- Automated the download of over 20,000 images by integrating a RESTful API into Python increasing the training data to improve the performance of machine learning models
- Improved communications and relationships with third-party data vendors by organizing over 50 meetings, which increased accuracy of labels that were downloaded using Azure Data Factory

### **Research Assistant | Chapman University | Orange, CA | September 2021 to December 2021**

- Automated a manual workflow to analyze patients' stress, depression, and anxiety.
- Wrote over 1300 lines of Python and R code to Extract, Transform, Load (ETL) with NumPy and Pandas and apply time series clustering to find 2 major trends in the data on the effects of therapy.

## Certifications

**Generative AI with Large Language Models | DeepLearning.AI and AWS** | issued in September 2024

**Deep Learning Specialization | DeepLearning.AI** | issued in December 2023

## Education

**Master of Science (M.S.) in Computational and Data Sciences emphasis in applied mathematics and analysis** | (3.419/4.0) | Chapman University (Orange, CA) | graduated in December 2021

**Bachelor of Science (B.S.) in Computer Science | Mathematics Minor** | (3.282/4.0)

Chapman University (Orange, CA) | graduated in December 2020

## Projects

### **Analyzing Medical Practitioner Stress**

- Used decision trees, SVMs, and neural networks to find what makes medical workers stressed

### **Dow Jones Dividend Analysis**

- Worked to discover a correlation if stocks with higher dividends were traded more by investors
- Coded a script in R finding no correlation between dividends and volumes for the DJIA

### **Markov Music**

- A Python scripted Markov Chain model to learn patterns in song lyrics to generate songs.

## Skills

**Programming languages** Python, Java, SQL, Scala, R, C, C++, MATLAB, C#, .NET, HTML, CSS

**Development tools and Big Data management** MongoDB, PostgreSQL, MySQL, SQLite, SparkSQL, Apache Spark, Apache Airflow, Git, GitHub, Docker, Unix, Linux, Jenkins, Amazon Web Services (AWS)

**Libraries** TensorFlow, Keras, PyTorch, Scikit-Learn, NLTK, pyspark, Gensim, spaCy, TextBlob, OpenCV, Pandas, NumPy, matplotlib, ggplot2, Sklearn, SciPy, JSON, CSV