

George Stimson
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Education

University Of Miami

Coral Gables, Florida/United States

Bachelors of Arts in Computer Science, and Minor in Political Science

- **Programming Languages:** R studio, Python, SQL, Java, C, JavaScript, HTML, CSS, and (Linux) Bash Scripting.
- **Data Visualization:** Matplotlib, Seaborn, and R (Ggplot2).
- **Relevant Coursework:** Introduction to Python for Data Scientists, Data Science for the World (R), Data Structures and Algorithms Analysis, Data Structures and Algorithms in Java, Discrete Mathematics, Calculus, and Computer Organization and Architecture.

Academic Projects

MNIST Digits Clustering Analysis:

- Processed 60,000 MNIST images to build a k-means approximation for KNN classification, achieving **92.32% accuracy** with a prediction time of **0.32 seconds**.
- Visualized digit distributions with histograms and evaluated predictions using a **confusion matrix**.
- **Stack:** Python, Numpy, Matplotlib, and Scikit-learn.

Counterfeit Identification Analysis:

- Analyzed 1,373 rows of USD currency data to predict counterfeit notes using statistical features (variance, skewness, kurtosis, entropy).
- Created 6 visualizations comparing classification attributes and implemented probability analysis with **Euclidean distance**, and color encoding to represent accurate predictions and predictive errors.
- **Stack:** Python, Numpy, and Matplotlib.

Work Experience

3D Printing Corporation GUI Database (MakeVirginia 3D Printing):

- Built a web-based GUI database to organize and provide access to customer data by migrating Excel spreadsheets to a relational **PostgreSQL** serverless database using Neon.
- Streamlined data retrieval and visualization for management with a **ReactJS** frontend and a **Flask** backend to handle user authentication and database queries.
- Deployed the system on **Google Cloud Run** using Docker, with a CI/CD pipeline through **GitHub Actions** for seamless updates.
- **Stack:** ReactJS, HTML, CSS, Flask (Python), Neon PostgreSQL, Docker, Github Actions (Git), and Google Cloud Run.

Skills and Interests

- **Skills:** Problem Solving, programming, writing, data analysis, and blockchain.
- **Interests:** Technology, MMA, finance, Mathematics, ML/AI, bitcoin, and big data.