Ericka Fernanda Salas-Garcia

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EDUCATION

The University of Texas at Austin, Austin, TX   **May 2022**
Bachelor of Computational Biology, GPA 3.15
- **Certificates**: Applied Statistical Modeling, Elements of Computer Science
- **Relevant Coursework**: Elements of Databases, Elements of Data Science, Linear Algebra, Biostatistics
- **Honors**: Hispanic Scholarship Fund (HSF) Scholar

TECHNICAL SKILLS

Programming Languages: Python, R, SQL, Bash, C++, Fortran, Java, JavaScript, HTML/CSS
Tools: RStudio, JupyterHub, Linux, Excel, Apache Spark, Hadoop, Hive, Domino, Airflow, Gitlab, Google Cloud Platform (GCP), Amazon Web Service (AWS), WordPress
Human Languages: English, Spanish

RELEVANT EXPERIENCE

Data Engineer Intern   May 2021 - August 2021
USAA - United Services Automobile Association, Phoenix, AZ
- Implemented basic ETL processes that ingested risk data from business partners to deploy the 90-day Issue Past Due Risk Model that minimized delayed member issues by 15%.
- Led the migration from IBM Datastage to Apache Spark using a combination of data sources such as PySpark, resulting in a 20% increase in team performance.
- *R, Spark, Python, SQL, Gitlab, ETL pipeline, Testing/Debugging, Hadoop, Hive, Domino, Airflow*

Web Developer - Executive Administration Committee   January 2020 - August 2021
Society of Hispanic Professional Engineers (SHPE), Austin, TX
- Revamped a static website into a functioning WordPress system that improved chapter productivity
- Wrote bash scripts to install security infrastructure and plug-ins for user feature enhancements
- *WordPress, HTML, CSS, Bash scripting, DNS Management*

Bioinformatics Undergraduate Researcher
Dr. Mbemba Jabbi Lab at Dell Medical School, Austin, TX   January 2019 - May 2021
- Managed pipeline for cluster analysis of RNA-Seq datasets using shell-scripting, Python scripts, statistical packages, data filtering and computational algorithms.
- Implemented genomic results in statistical analysis for publication of evolved Mental Health research treatments
- Presented visuals and research results at The 2020 Undergrad Research Symposium & Awarded Best Poster in the Computational Sciences Category
- *R, Python, Pandas, NumPy, Scikit-learn, ggplot, Data Visualizations, Statistical & Clustering Analysis, Data Mining*

Google Cloud Database Programming   May 2021
Elements of Databases course project
- Designed a scalability study of Hollywood and Bollywood movie data by a creating relational database on GCP
- Analyzed the scalability using querying techniques, data visualization tools, and testing different instances
- *BigQuery, PostgreSQL, MySQL, Neo4j, MongoDB, ER diagrams, Data Studio, Google Cloud Platform, JupyterHub*

LEADERSHIP & COMMUNITY INVOLVEMENT

Orientation Leader   January 2019 - July 2021
New Student Services at UT Austin, Austin, TX
- Applied strong interpersonal communication skills when interacting with different situations
- Managed over 9,000 new student challenges, diverse solutions, and constant change within a team