Fernando Quintero

| (832) 800-9212 | quintef.romero@gmail.com | github.com/quintef |

Education

Bachelor of Science in Computer Science, Minor in Mathematics **December 2022**
The University of St. Thomas - Houston, TX (UST)

Experience

Undergraduate Research Assistant, *UST* **1/2022 - 12/2022**
Research project funded by the NSF to develop a pipeline to automate genetics and proteomics analysis.
- Developed innovative tools to study patterns of protein enrichment in a large dataset.
- Worked using REST APIs
- Conducted research on Machine Learning approaches to detect patters in the 3D protein structures.
- Added functionality to explore ontologies and perform gene enrichment analysis.
- Used GitHub for branch development, version control, and team collaboration.
- Used AWS EC2 cloud servers (Linux Ubuntu) for software development.
- Improve search performance by 10% using relational database technologies.

Computer Science Club, Vice President, *UST* **2018 –2021**
- Introduced weekly mini projects in python scripting.
- Tutored club members in Java.
- Hosted weekly Project Euler problem solving sessions.
- Improved the operation of the club through scheduling online weekly meetings and events.

Projects

Personal Website (Js, CSS)
- Developed a personal website that uses CSS stylization.
- Serves as a hub for all my profiles pages, such as GitHub, LinkedIn and a downloadable resume.
- Runs on the Python framework Django.
- Created a backend mySQL server that securely stores user's contact information using Node.js.

2D Platformer Game (C#)
- Used C# to program movement function such as jumping, running, attacking.
- Used Unity engine to program collision detection, make animations, and add sounds to the game.
- Created and imported custom artwork using Adobe tools.

ML Model for FARS Dataset
- Performed data preparation on the FARS (Fatality Analysis Report System) dataset.
- Developed a K-Means and Linear Regression model that predicts a person's age provided accident details.
- Used Pickle to save the model for easy deployment.

Skills

Languages: Python, Java, C++, JavaScript, HTML, CSS, SQL
Libraires: Django, Celery, Pandas, TensorFlow, Node.js, React.js
Tools: PostgreSQL, MySQL, MongoDB, AWS EC2, Visual Studio Code, IntelliJ, Git, Linux

Academic Achievements

Peggy and Bill Shiffick Scholarship Recipient **2018-2022**
Selected as part of the NSF-funded research project at UST (competitive selection) **1/2022 - 12/2022**