

Ricardo Galeano

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Education

University of California, Riverside

- B.S in Computer Science, June 2025

Experience

Web Developer, The Association for Computing Machinery (ACM)

Spring 2023 - Present

- Led frontend development for department sponsored websites, utilizing TypeScript, React.js, NativeWind, Expo, and Tailwind CSS improving the user experience for over 2,000 students
- Built and deployed 10 responsive websites from Figma designs, improving user engagement through visual appeal and functionality
- Conducted regular code reviews and debugging sessions, improving code quality and reducing bugs by 40%
- Coordinated project timelines and tasks using Agile methodologies, leading to the successful on-time delivery of project milestones

Technical Projects

Stock Data Analysis System

Spring 2025

- Collaborated in a 5-person team to analyze 10+ million stock market records using Apache Spark for distributed data processing across 300+ stocks
- Implemented comprehensive ETL pipeline with data cleaning, technical indicators (RSI, moving averages), volatility analysis, and sector performance metrics
- Developed React.js frontend with Tailwind CSS and Flask API backend connected to MySQL database for real-time data visualization
- Utilized Spark DataFrames and window functions to calculate complex financial metrics, achieving 70% prediction accuracy for SMA crossover signals
- Processed 105M+ records with significant performance improvements using distributed computing (2x speedup with multi-worker setup)

Reddit Search Engine System

Winter 2024

- Built a Reddit post search engine using PyLucene for indexing and Flask for the web application backend
- Implemented search functionality across username, body, title, timestamp, and score fields with BM25 scoring algorithm
- Developed responsive web interface allowing users to search and rank Reddit posts by relevance with top 10 results display
- Assisted with environment setup, debugging, and system integration across team of 5 developers

Football Data Engineering Project

Summer 2024

- Utilized Apache Airflow to orchestrate ETL processes, automating data extraction, transformation, and loading from Wikipedia into Azure Data Lake and Synapse for seamless integration and processing
- Leveraged Azure Storage and Azure Synapse Analytics to store, manage, and analyze large datasets efficiently while ensuring scalability and security
- Containerized the Airflow environment using Docker, ensuring consistent deployment across multiple platforms and streamlining workflow management
- Built interactive dashboards and visualizations in Tableau to provide real-time insights into football stadium data

Housing Market Analysis and Price Tracking System

Fall 2024

- Analyzed California housing datasets of over 1 million records using SQL, employing joins, subqueries, and aggregate functions to extract insights and optimize query performance by 30%
- Utilized Python (Pandas) for data cleaning and transformation, reducing preparation time
- Automated real-time price tracking with an Amazon web scraper (Python, BeautifulSoup, Requests), storing data in CSV for daily updates and achieving real-time data collection every 24 hours
- Created interactive dashboards in Tableau and Power BI, designing multiple views and filters to analyze over 50,000+ data points

Skills

- **Programming:** C++, Python, SQL, JavaScript, TypeScript
- **Web Development:** React.js, Flask, HTML/CSS, Tailwind CSS
- **Big Data & Cloud:** Apache Spark, Apache Airflow, AWS, MS Azure, MySQL
- **Tools:** Docker, Git, PyLucene, Tableau, Power BI, Linux