



Johnny Perez

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Profile

Results-driven Python Developer specializing in Data Analytics, Machine Learning, and Backend Software Development. Eager to apply diverse skills and experiences in data analysis to contribute to dynamic projects. Skilled in transforming intricate data into actionable insights and experienced in formulating effective business solutions supported by data trends. Dedicated to continuous learning, staying on top of industry advancements to ensure the application of the latest methodologies and tools.

Professional Skills

- **Languages:** Python, Javascript, Java, R, SQL, Visual Basic
- **Technologies:** React, Node, AWS
- **Server Side:** SQLite, MSSQL, Postgre, SQL Server, Denodo
- **Business Intelligence:** PowerBI, Spotfire, Tableau, Excel, Spreadsheets
- **Other:** Data Management, Data Modeling and Data Engineering, Statistical Analysis, Data Mining, Problem Solving & Critical Thinking.

Experience

MICROBIOLOGY RESEARCH ASSISTANT – IOWA STATE UNIVERSITY - 2017-2019

Location: Ames, IA

Research and Design of a predictive modeling tool to generate data on cell population dynamics under different environmental stimuli. Provide laboratory services for health departments, community environmental health programs, and for physicians needing information for diagnosis and treatment. Isolate and maintain cultures of bacteria or other microorganisms in prescribed or developed media, controlling moisture, aeration, temperature, and nutrition.

SQL SERVER DEVELOPER IOWA STATE UNIVERSITY 2019- 2020

Location: Ames, IA

Statistical modeling of trucking data using Python, R, and Machine Learning frameworks like TensorFlow. Developed and maintained a central database that contained various company data used for statistical analyses.

WEB DEVELOPER - CARVER CO-LABS 2019-2020

Location: Ames, IA Site: <http://fc-fair.dill-picl.org>

React and Django Web App for demonstrating crop ontology data to assist researchers in search of specific sets of data. This tool makes maize genomics data from the Gene to Fields Initiative accessible and findable through search interfaces

RESEARCH REMEDIATION ANALYSIS - WELLS FARGO - 2020

Location: West Des Moines, IA

Respond to, research, and resolve escalated inquiries and complaints requiring special handling that have been forwarded by management, agencies, and senior business leaders

RESEARCH DATA ANALYST - CORTEVA AGRISCIENCES 2020-CURRENT

Location: Remote

Collaborated closely with senior scientists to conceptualize, design, and implement applications facilitating data acquisition, management, processing, and visualization. Successfully engineered analytical solutions, incorporating visualizations deployed both on-premise and in cloud environments. Executed data mining operations utilizing LIMS and Python, subsequently developing comprehensive visualization solutions, and took a leadership role in integrating R functions into an automated scoring script for cluster analysis of plate and auto-array data. Pioneered a prescreening initiative, enhancing data quality by implementing a system to identify and alert analysts to potential issues within machine and sample data.

Education

- Iowa State University; Ames, Iowa – Biology/Bioinformatics 2020
- Caribbean School; Ponce, Puerto Rico - High School Graduate 2015

Certifications

- Data Science: Python Certification / IBM Developer Skills Network

Projects

Personal Website: johnnypr.github.io

- **Automated Scoring:** Developed an advanced R program meticulously designed to cluster quantitative polymerase chain reaction (qPCR) data. The program adeptly employs unsupervised clustering methods to discern patterns and intricacies within the dataset, providing nuanced scores for presence/absence, copy number variations, and zygosity levels.
- **Operational PowerBI Dashboard:** Dynamic PowerBI report that consolidates information from diverse sources, providing real-time insights into key business performance indicators. With customizable metrics and visually compelling representations, the dashboard empowers users to make informed decisions swiftly, access the full potential of their data, streamline operations, and drive strategic growth in our organization.
- **Prescreening Tool:** Developed an unsupervised machine learning model with the primary objective of detecting non-sigmoidal curves within amplification data, indicative of potential sample-related issues in experimental outcomes. This innovative solution aims to establish a robust flagging system, strategically designed to identify instances where experimental data may necessitate a reevaluation or more meticulous scoring. The ultimate goal is to enhance the overall reliability and accuracy of experimental results, contributing to the optimization of experimental protocols in molecular analysis. Fair Data Demonstrator: Demonstration of FAIR data principles applied to crop field trial data. The tool makes maize genomics field trial data from the Genomes to Fields Initiative accessible and searchable through the search interfaces.