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Stanley Armstrong

Education

California Polytechnic University, San Luis Obispo, California

B.S of Computer Science **September 2017 – June 2021**

Relevant Courses: Data Structures, Algorithms, Data Science Principles, Artificial Intelligence, Database Modeling and Implementation, Human and User Centered Interaction, Operating Systems, Programming Languages, Theory of Computation, Computer Architecture, Graph Theory, Combinatorics, Game Theory

Technical Skills

Programming Languages: Python, Java, SQL, Javascript, C, and Racket
Data Science/Engineering Frameworks: Pandas, PySpark, Apache Airflow, PowerBI, and Numpy
Web/Mobile Frameworks: React.js, React Native, Angular, Django, Spring Boot, Node.js, Spring Boot, and Express
Cloud Infrastructure: Amazon S3, Amazon EC2, Google Cloud Storage, BigQuery, and Power BI
Prototyping Tools: Adobe XD, Figma, Invision, Miro, Balsamiq
Version Control: Git

Experience

Advana

Data Engineer **August 2022 – Present**

Improving ELT data pipelines to reduce storage and computation costs to support a multi-cloud architecture
Implementing monitoring and CI/CD into current data pipelines to report failures and improve development speeds
Building custom customer BI reports in order to provide clients with beneficial data insights
Utilizing best Agile practices with regular SCRUM schedules and sprint retrospectives

Promaxo

Software Engineer **August 2021 – June 2022**

Led manufacturing MRI-based scan projects to improve efficiency of reviewing and completing calibrations
Improved current systems by adding features to be consistent across products
Wrote documentation for FDA version releases in order to release new features of our MRI

Projects

Sentry

Category Sentry reports that report the market share, retail pricing, and velocity of products
Retail Sentry reports that report the distribution, retail pricing, out-of-stocks, and promotional effectiveness
Utilizes BigQuery and Power BI to build the the reports

Source System Data Ingestion

Ingests different sources and consolidates the data across multiple cloud providers in both the data lake and warehouse
Refactored Databricks notebooks into Apache Airflow ingestion pipelines in order to be used by the BigQuery data warehouse to produce client and internal reports
Utilizes PySpark and Apache Airflow to read and transfer landing files to data warehouse

Gradient Calibration App

Visualizes data from a gradient calibration scan and measurements are made in order to provide uniform images when ordinary MRIs take place
Tool utilized a minimal Flask backend and a React fronttend with Plotly to visualize data

Posters

Multiple Objective Optimization of Coating Resin Synthesis using Evolutionary Search

Western Coatings Symposium and Show **October 2019**

Stanley Armstrong, Anthony Griffin, André Lagron, Madeline Schultz, William Thompson, Erik Sapper