stanleyarmstrong31@gmail.com
408-499-7923
https://stanleyarmstrong.com

Stanley Armstrong

Education

California Polytechnic State 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 Language Design with Racket, Theory of Computation, Computer Architecture

Technical Skills

Programming Languages: Python, Java, SQL, Javascript, C, Scala, and Racket
Data Science/Engineering Frameworks: Spark, Apache Airflow, Pandas, and Numpy
Web/Mobile Frameworks: React.js, React Native, Angular, Django, Spring Boot, Node.js, and Express
Cloud Infrastructure: Amazon S3, Amazon EC2, Google Cloud Storage, BigQuery, and Power BI
Version Control: Git

Experience

Advana

Software Engineer - Data Engineering **August 2022 – March 2023**

Ingested source system data with Python, Spark, and Airflow to create a multi-cloud infrastructure reporting system
Built ELT data pipelines with Apache Airflow to improve data reporting to clients from a monthly report to a daily report
Reduced cloud computing costs by 50% by restructuring our Data Lake and Warehousing solutions
Implemented Sentry monitoring and GitHub Actions into current data pipelines to report failures and improve development speeds
Validated data with internal reports and unit testing to insure that data quality was correctly being reported
Utilized best Agile practices with regular SCRUM schedules and sprint retrospectives

Promaxo

Software Engineer **August 2021 – July 2022**

Improved and implemented new features on our MRI and accompanying React web application to improve patient and doctor workflows
Introduced a React web application to improve calibration processes in order to reduce knowledge barrier to perform calibrations
Wrote documentation surrounding new features to maintain FDA clearance surrounding applications

Projects

Sentry

Category Sentry reports the market share, retail pricing, and velocity of products across different categories
Retail Sentry reports the distribution, retail pricing, out-of-stocks, and promotional effectiveness of products at locations
Generated by using SQL queries in BigQuery and used Airflow to orchestrate when the reports were delivered and visualized by Power BI

Source System Data Ingestion

Ingests different sources and consolidates the data across multiple cloud providers in both the data lake and warehouse
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
Utilizes Plotly and React with a Python Flask backend to visualize data

Posters

Multiple Objective Optimization of Coating Resin Synthesis using Evolutionary Search

Western Coatings Symposium and Show **October 2019**