Lyneisha Williams

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EDUCATION

University of Southern California Los Angeles CA
Bachelor of Arts 08/2020- 05/2024
Mathematics
Relevant Coursework: Data Structures and Algorithms, Discrete Mathematics, Enterprise Data Architecture, Data Analysis in Python, and Numerical Methods

EXPERIENCE

Software Development Engineer Intern | Amazon 05/2023-08/2023

- Constructed AWS Lambda application using REST API endpoints to support automation of internal code monitoring and project tracking with embedded Jira ticketing
- Created client to receive and send code review Simple Notification Service (SNS) data and perform analysis based on created software release backend for team of 20+ engineers
- Wrote various design documents identifying project use cases, application architectures, necessary dependencies, and implementation
- Designed back-end to store pulled release dates

Data Research Assistant | University of Washington Medical Center 10/2024-Present

- Processed and cleaned in-surgery data from over 1,200 patients to ensure data integrity and usability
- Developed an algorithm leveraging Train-of-Four (TOF) data to detect neuromuscular recovery during surgery
- Applied polynomial, linear, and spline regression techniques to analyze TOF recovery trends and improve predictive accuracy
- Authored detailed reports and presentations outlining project scope, analytical methodologies, and key findings

Fellow | Data Science for All 10/2020-02/2021

- Curated data models in Python for commercial applications, presented findings using Tableau
- Executed full-life-cycle data science work in applied contexts of business
- Led team on research project to analyze effects of COVID-19 on consumerism and overall happiness index

PROJECTS

Video Game Sales Predictor | *Python, Flask, React*

- Developed full-stack web application using Flask and React
- Performed predictions on video game trends using scikit-learn and Matplotlib
- Presented predictions on developed web application, allowing users to adjust projections

Mountain View Homeless Coalition Case Study | *SQL, Oracle19c*

- Designed, built and implemented object-relational database applications using Oracle 19c
- Performed data definitions (DDLs) and data manipulations (DMLs) using SQL
- Optimized existing SQL production level data pipelines
- Performed physical database optimization using transaction analyses

SKILLS

- Languages: Python, SQL, Java, C++, JavaScript, HTML/CSS, MATLAB
- Developer Tools: Oracle, Tableau, Amazon Web Services, Git, Docker, Visual Studio Code, PyCharm, IntelliJ, JIRA, Confluence