**Lyneisha Williams**

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**EDUCATION**

**University of Southern California** Los Angeles CA

*Bachelor of Arts*  08/2021- 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