

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, Object-Oriented Programming, Discrete Mathematics, Enterprise Data Architecture, Data Analysis in Python, and Numerical Methods

EXPERIENCE

Research Data Assistant | University of Washington | *Python, R* 10/2024-04/2025

- Processed and cleaned data collected from the surgeries of over 1,200 patients
- Built a **Python-based Recurrent Neural Network** via Keras to analyze Train-of-Four (TOF) data for detecting neuromuscular recovery
- Utilized regression techniques to enhance model accuracy and support predictive analytics
- Authored technical presentations and abstracts clarifying project scope, determining analytical methodologies, and presenting key findings

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

- Developed and deployed scalable **backend** services using **AWS Lambda** and **REST API** endpoints to automate DevOps code monitoring and project tracking
- Integrated **Jira** ticketing system and enabled data exchange via **SNS** for code review and release workflows, supporting a team of 15+ engineers
- Authored design documentation clarifying project use cases, designing the application architecture, identifying necessary dependencies, and planning the implementation
- Participated in **Agile development** using Scrum methodology to deliver bi-weekly sprint deliverables

PROJECTS

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 informed by transaction analyses

AI Hacks Datathon @ UPenn | *Python*

- Developed content-based **recommender** system for behavioral healthcare startup
- Built model implementing content-based filtering to recommend patient video content
- Utilized metrics such as patient watch history, video tags to weight video similarity
- Calculated best fit videos based on cosine similarity of past videos and prospective videos
- Resolved data inconsistencies through extensive and meticulous data cleaning

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

SKILLS

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