

ANTHONY RODRIGUEZ

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EDUCATION

University of California—Berkeley

Bachelor of Arts in Data Science
Emphasis in Applied Mathematics and Modeling
Graduated May 2021

Accomplishments: Bay Honors Consortium
Honors Research Scholar 2016 & 2017,
Hispanic Scholarship Fund Scholar 2017 & 2018

Relevant Courses: Data Structures,
Machine Structures,
Machine Learning,
Introduction to Artificial Intelligence,
Computer Security,
Principles and Techniques of Data Science,
Probability for Data Science,
Linear Algebra

NOTABLE PROJECTS

Spotify Genre Classifier (personal project): In a Jupyter Notebook, with Numpy, Pandas, and Seaborn I performed data cleaning and exploratory data analysis on a Spotify dataset of songs. Using Scikit-learn I trained and compared 3 classifiers (SGDClassifier, K-Nearest Neighbors, and a Neural Network) to predict the music genre when given certain features of a song.

Path Finders (personal project): A Python app that shows a visualization of search algorithms (DFS, BFS, UCS, Iterated Deepening DFS, and A*) on a 2-D graph.

Pacman Projects (course projects): With Python, I applied multiple AI techniques such as informed state-space search, probabilistic inference, and reinforcement learning to perform a series of Pacman actions that yield the optimal expected outcome to the goal state.

SKILLS

Languages: Python, Java, C#

Working Knowledge: C, SQL, Bash, Git

Frameworks, Libraries, API's: Pandas, NumPy, Scikit-learn, JUnit, NUnit, Jupyter Notebook

Data Science Skills: Exploratory Data Analysis, Data Cleaning, Data Visualization, Predictive Modeling

EXPERIENCE

Software Engineer I

August 2021 – Present

MGM Resorts International, Las Vegas, NV (Remote)

- Designed and built a REST API of a micro-service that adds comments and alerts to a customer reservation using a tablet (known as a lobby tool) instead of using a front-desk desktop. The service was built with .NET, Azure Web App Service, and the Opera Web Service API.
- Helped design and build a backend REST API of an audit logging service that stores data about employee actions when an employee looks up customer information using .NET, Azure Functions and a Cosmos DB.
- Implemented GraphQL for the micro-services I built.
- Built the backend of a web app service, using .NET and Azure Functions, that automates release notes. The web app provides support for multiple repositories and multiple release note configurations. The web app has drastically cut down the time it takes to create a release note.
- Converted all .NET services from using scope-based authorization to role-based authorization.
- Refactored all .NET services from using deprecated Azure packages to recommended Azure packages.
- Created unit tests for all services I built or helped build.
- Experience creating CI/CD pipelines using Azure DevOps (classic and YAML).
- Experience deploying all team services through Azure DevOps.
- Experience as a Site Reliability Engineer (“on-call engineer”) that troubleshoots alerts for team services.