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

Pacman Projects (course projects): With Python, I applied an array of 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.

Encrypted File Sharing System (course project): Used Go and cryptographic primitives to implement the client of a file sharing system. The system is to ensure confidentiality and integrity of all files and access tokens.

Bear Maps (course project): Used Java, graph algorithms, and an Open Street Map data set to implement the backend of a web server that generates a map of the city of Berkeley.

Machine Learning (course project): With Python, and a provided framework, I created neural networks that solved classic machine learning problems such as digit classification and language identification.

SKILLS

Languages: Python, Java, C
Working Knowledge: SQL, Go, Node.js, RISC-V, Scheme, JavaScript, HTML5, CSS, Bash, Git
Frameworks, Libraries, API's: Socket.IO, Scikit-learn, Pandas, NumPy, JUnit, Jupyter Notebook
Data Science Skills: Exploratory Data Analysis, Data Cleaning, Data Visualization, Predictive Modeling

WORK HISTORY

Desktop and Systems Support Specialist   **September 2019 – May 2020**
Cal Alumni Association, Berkeley, CA
- Provide troubleshooting support to issues with user's desktop/laptop, network connection, and printer.
- Create, delete, and manage user's G Suite services using Google Admin.
- Reimage computer systems for deployment to new users and connect their systems to the network.

Academic Intern   **Jan 2018 - May 2018**
University of California – Berkeley, Berkeley, CA
- Assisted UC Berkeley's CS 61A students with lab assignments using Python, Scheme, and SQL.
- Guided students on how to compose computer programs by properly using data abstraction.
- Led students in constructing correct algorithms to solve programming exercises.

Supplemental Instruction Leader   **August 2016 - June 2017**
Modesto Junior College, Modesto, CA
- Guided peer-lead study group sessions for math students outside of courses.
- Created worksheets for students to follow during supplemental instruction sessions.
- Met with course instructor on a weekly basis to report student progress and discuss strategies to be used in supplemental instruction session that can further student success in their course.
- Improved students' overall grade in the course by a whole letter grade.