

# ANTHONY RODRIGUEZ

Ceres, CA ♦ **Phone:** (209) 416-7031 ♦ **Email:** rodriguez.anthonyf@gmail.com  
♦ **LinkedIn:** [www.linkedin.com/in/anthonyfrodriguez/](http://www.linkedin.com/in/anthonyfrodriguez/) ♦ **Portfolio Website:** [arod209.github.io](http://arod209.github.io)

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## EDUCATION

### University of California—Berkeley

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

**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

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

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## 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.

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## SKILLS

**Languages:** Python, Java, C

**Working Knowledge:** SQL, Go, RISC-V, Scheme, JavaScript, HTML5, CSS, Bash, Git

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

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

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## 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.