

Giovani Gutierrez

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EDUCATION

University of California, Santa Barbara

Santa Barbara, CA

Bachelor of Science in Statistics & Data Science

Expected Graduation: June 2024

- Relevant Coursework: Principles of Data Science with R/SQL, Intermediate Python Programming, SAS Base Programming, Regression Analysis, Applied Stochastic Processes, Analysis and Design of Experiments, Statistical Machine Learning, Bayesian Data Analysis, Probability and Statistics
- Awards: Dean's Honors List

PROJECT EXPERIENCE

Apartment Sorter

- Created in Python
- Defined Python classes
- Overloaded the `==`, `<`, and `>` operators in a Python class
- Implemented an $O(n \log n)$ mergesort on a list of Apartment objects
- Wrote functions that ensured the list of Apartment objects was in sorted order
- Determined the best/worst apartment in a list
- Listed out all of the apartments that were affordable
- Tested functionality with Pytest

Pizza Order Manager

- Created in Python
- Practiced with the ideas of inheritance and polymorphism
- Implemented and applied the heap data structure as a priority queue
- Defined and raised exceptions
- Tested functionality with Pytest

Book Collection Sorter

- Created in Python
- Wrote a program to organize books in book collections
- Defined Python object classes
- Overloaded an operator in a Python class
- Implemented an ordered linked list
- Tested functionality with Pytest

Maze Solver

- Created in Python
- Explored and solved a given maze by utilizing a stack data structure
- Represented a maze using a multi-dimensional list
- Tested functionality with Pytest

SKILLS & INTERESTS

Skills: Python (NumPy, Matplotlib, Pandas, Pytest) | R/RStudio (Tidyverse) | SAS 9.4 | SQL (PostgreSQL, SQLite, MySQL) | Microsoft Excel

Interests: Data Analytics/Science/Engineering, Education, Programming