Ziadin Navarro

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PROJECTS

Gitlet *Java, Python*
Created a version-control system similar to Git from scratch using Java. The project recreated common git commands and took advantage of Java's Serializable interface for data persistence. Python and RegEx were used extensively for integration testing. Gained knowledge on how to design software from scratch and when to use various data structures.

BearMaps *Java*
Implemented the back end of a simple map application that deals with finding the shortest path between 2 points within Berkeley. Application was built using KD-Trees, Priority Queues, and the A* algorithm. Back end also handled the map rastering of the program. Application was deployed on Heroku.

Scheme Interpreter *Python*
Implemented an interpreter for the Scheme programming language using Python. Learned the basic inner workings of the Scheme programming language and how programming languages are parsed and interpreted.

SKILLS & TOOLS

Languages	Java, Python, C++, HTML & CSS, SQL, JavaScript
Concepts	Object-Oriented Programming, Functional Programming, Data Structures & Algorithms
	Unit Testing, Integration Testing, Version Control

EXPERIENCE

Computer Information System Department Tutor & TA `June 2020 - Aug 2021`
De Anza College, Cupertino, California

- Tutor within the CIS deparment of De Anza College
- Teaching Assistant for two classes: CIS 41A (Python Programming) and CIS 22C (Data Abstraction and Structures)
- One-on-one tutoring with students through appointments
- Topics Include: Introductory & Intermediate C++, Intermediate JAVA, Introductory Python, Data Structures & Algorithms

EDUCATION

Bachelor of Science in Computer Science `Sept 2021 - Present`
California Polytechnic State University, San Luis Obispo, California

Associate of Science in Computer Science `Sept 2019 - June 2021`
De Anza College | Dean's List, Cupertino, California 3.87