Harshil Patel

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Education

Sep 2019 – Jun 2023 (Expected)

University of California, Davis – B.S. in Computer Science. **GPA 3.6/4.0**
- Relevant coursework - Object-Oriented Programming, Data structures, Computational Theory, Algorithm Design and Analysis, Machine Dependent Programming, Operating Systems, artificial intelligence, Web development, programming languages.

Projects

July 2022 *Valorant Live Bot,* Discord bot (Python)
- Created a discord bot that provides live match scores, live matches, upcoming matches, and team ranking for Valorant eSports.
- Used websracpping to get the relevant data.

June 2022 *OMR Scanner API,* (Python, Flask)
- Created an OMR grader using OpenCV to do image processing.
- Created a Restful API using Flask with two POST calls to set the answer key and grade the provided OMR.

June 2021 *Path finding Algorithm Visualizer* (Python)
- Made a Pathfinding visualizer for A* search, DFS, BFS, and Dijkstra's algorithm using PyGame, to better understand how they work and learn basic animations in Python.

June 2020 *Sudoku Grid Generator and Solver* (Python, Flutter)
- Made a Sudoku solver, to better understand recursion after the Data Structures Class, originally in Python.
- Converted it to a flutter app implementing both to learn about basic app development.

Relevant Experience

April 2022 *Unify Student Assistant, Hack Davis Winner*

(React, Flask, SQLite, Python, Javascript, HTML/CSS)
- Created an online student assistant (React) and a corresponding discord bot (Python) for Hack Davis as a group of 4.
- Used web scrapping to create our own APIs (Flask) and database (SQLite) for getting class and rate my professor information.

Skills

.*Programing Languages/environments*
- *Proficient*
  Java, C/C++, Python, Go, HTML/CSS, Javascript,React, SQLite, Express.
- *Familiar*
  Lisp, prolog, flutter(dart), android studio, openCV, Flask.