



Mukul Joshi

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</> codewars |  github |  vimeo

EDUCATION

COLLEGE OF TECHNOLOGY AND ENGINEERING, UDAIPUR

2017-2021

- B.Tech in Electronics and Communication | 62.1% | M.P.U.A.T

CENTRAL ACADEMY SENIOR SECONDARY SCHOOL, UDAIPUR

2014-2016

- 12th Examination | 84% Central Board of Secondary Education
- 10th Examination | 7.6 CGPA Central Board of Secondary Education

SKILLS

PROGRAMMING LANGUAGES *Experienced:* Python | C *Familiar:* C++ | Java | Dlang | SQL | Bash | PHP
SOFTWARE DEVELOPMENT Programming Paradigms | GIT | CLI | Data Structures and Algorithms
FRAMEWORKS & LIBRARIES Pygame | Matplotlib | Flask | Linux | Django
MARKUP LANGUAGES \LaTeX | HTML | Markdown

PROJECTS

PAINT PROGRAM

Desktop Application, Python, Pygame, Tkinter, Numpy

- Designed a raster graphics editor that allows users to create and edit images interactively on a computer screen.
- Flood Fill algorithm is used to implement the Paint Bucket tool. Deque is used to implement Tabs functionality.
- Implemented Drawing Tools such as Rectangle, Ellipse, Line, Freehand, Paint Bucket, Copy Tool, Eraser.

SORTING VISUALIZER

Desktop Application, Python, Pygame

- Visualization of Sorting Algorithms such as Merge Sort, Bubble Sort, Selection Sort, Quicksort, Insertion Sort.
- In-Place Quick Sort and In-Place Merge Sort are used for faster sorting and better memory management.

MINI PROJECTS

- Built a Simple Equation solver using Abstract Syntax Trees, which can solve simple algebraic equations.
- Designed Terminal Todo list program with functionality of add, delete, list, done, report of Todo items.
- Designed Sierpinski carpet and Cantor set visualization (Infinite self similar patterns) in pygame.

ACHIEVEMENTS

- Top **2%** with World Rank of **6949** at codewars.com and solved **200+** problems on codewars. [Codewars Profile](#)
- Top **1%** with 23k points at interviewbit.com and solved **100+** problems on interviewbit. [InterviewBit Profile](#)
- **1059** contest rating on codeforces.com and solved **380+** problems on codeforces. [Codeforces Profile](#)
- Scored **96%** in coding round of CoCubes assesment. Top **97** percentile in India.
- Attained **Five stars** ,Golden Badge for Python Programming on HackerRank.

CERTIFICATES & COURSES

- **Problem Solving Ability Test** consisted of Sorting, Searching, Dictionary & Array Problems by **HackerRank**. [LINK](#)
- **Python Assessment** consisted of Collections, Iteration, Modularity, Objects and Classes by **HackerRank** [LINK](#)
- **Java Assessment** consisted of Strings, Classes, Inheritance, Exception Handling by **HackerRank**. [LINK](#)
- **Data Structures and Algorithms in Python** by the instructor, Holczer Balazs through **Udemy**. [LINK](#)
- **Introduction to Algorithms and Data Structures** 6.006 through MIT OPENCOURSEWARE.

EXPERIENCE

CODEWARS

2020-Present

PROBLEM SETTER

- Authored several Problems on Codewars ranging from Hashing to Divide and Conquer.
- Those problems were solved by a total of 206 Users and earned 31 Stars.