

MUKUL JOSHI

CONTACT

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Codewars: www.codewars.com/users/vim1729 **Project Videos:** <https://vimeo.com/566776779>

EDUCATION

- **College of Technology and Engineering**, Udaipur, Rajasthan (2017-2021)
- Bachelor of Technology in **Electronics and Communication Engineering**

Education	University	Institute	Year	Percentage
B.Tech	MPUAT	College of Technology & Engineering	2021	
XII	CBSE	Central Academy Senior Secondary School	2016	83.4%
X	CBSE	Central Academy Senior Secondary School	2014	7.6 CGPA

COMPUTER SKILLS

- **Languages:** Python, C++, C, Lisp
- **Familiar with:** Flask, Django, HTML, PHP, Shell Scripting, Linux(Arch), SQL, Vim(Editor)
- **Markup Languages:** Markdown, Latex
- **Tools:** Git(GitHub), Terminal commands and programs, Pygame(Python Game Development Library)

PROJECTS

- **Paint Program** *[Desktop Application-python,pygame,numpy,tkinter]* [\[GitHub\]](#) [\[Video\]](#)
 - This application lets user create shapes.It has different tools such as Rectangle,Line,Ellipse,Eraser,Freehand,Paint Bucket,Copy-Tool and a color pallete to choose colors from.User can also save their work and re-edit it later.
 - Flood-Fill algorithm is used to make the Paint Bucket Tool.This application also supports upto five Tabs(implemented using stack and queue).User can also make their own color by selecting different values of RGB from the scrollbar.
- **Sorting Visualizer** *[Desktop Application-python,pygame]* [\[GitHub\]](#) [\[Video\]](#)
 - This Program is the Visualization of popular Sorting Algorithms such as Merge-Sort,Bubble-Sort,Insertion-Sort,Quick-Sort and Selection-Sort
 - In-Place Quick sort and In-Place Merge sort are used instead of their classic implementation as it's easier to visualize and keep track of a single array.
- **Mini-Projects**
 - Sierpinski carpet and Cantor Set Visulization (Infinite self-similar patterns-python) [\[GitHub\]](#) [\[Video\]](#)
 - Terminal To-Do list program (add, delete, done, list, report To-Do-python, sqlite) [\[GitHub\]](#) [\[Video\]](#)
 - Simple Equation Solver Using Abstract-Syntax-Trees [\[GitHub\]](#)

CERTIFICATES & COURSES

- **Data Structures and Algorithms in Python** [Certificate Link](#)
- **HackerRank Python Skill Verification Certificate** [Certificate Link](#)
- **Introduction to Algorithms 6.006** through **MIT OPENCOURSEWARE**

ACHIEVEMENTS

- Top **2%** with World Rank of **#6,964** at codewars.com [Codewars Profile](#)
- Top **1%** with 23k points at Interviewbit.com [InterviewBit Profile](#)
- Cracked **HackerRank** Problem Solving Ability Test [Problem Solving Certificate](#)
- Solved **1000+** Problems on various online judges such as **Codeforces,Codewars,HackerRank,LeetCode,Atcoder and ProjectEuler.**