

KRUPA DESAI

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EDUCATION

University of California, Davis – Computer Science

Sept 2019 – June 2023

Relevant Coursework: Data Structures, Algorithm Design, Object-Oriented Programming, Discrete Math, Computer Architecture

SKILLS

Proficient: Python, C/C++, Linux

Working Knowledge in: React.js, HTML/CSS/JS

Exposure of: Express, Node.js, GraphQL, MongoDB, Flask, Bootstrap

EXPERIENCE

Computer Science Tutor, **UC DAVIS**

Jan 2021 – Present

- Mentor university students in lower-division computer science coursework
- Provide guidance, perform code review, and help debug students' cs projects

PROJECTS

Air Canvas

- Built a webcam drawing program that uses Python OpenCV to map coordinates extracted from hand recognition software to the screen, where colored circles are drawn and connected to simulate a brush stroke

MERNG Moments

- Developed a full stack social media app that implements user registration, login authentication, and allows users to post, like, comment, etc.

Wellness Journal

- Integrated a back-end API in Flask with a React front-end that allows a user to create, edit, and delete personal journal entries

Personal Website

- Utilized React, Bootstrap, HTML, CSS and JavaScript to create a responsive personal portfolio website featuring projects and more about me

Sudoku Solver

- Developed an application written in Python that utilizes the Pygame library to solve hundreds of sudoku puzzles by implementing a backtracking algorithm

Breast Cancer Prediction Tool

- Predicts breast cancer on the basis of the given dataset using machine learning, python, and ML algorithms like Logistic Regression, Decision Tree, and Random Forest