

Aman Yadav

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EDUCATION

GANDHINAGAR UNIVERSITY

B.Tech Computer Engineering

June 2026

SHREE SWAMINARAYAN INTERNATIONAL SCHOOL

HSC

Current GPA: 8.99/10.0

March 2022

SAURABH ENGLISH School

GSEB

Percentile: 74.24%

March 2020

Percentile: 93.46%

Courses: Object-Oriented Programming, Data Structures & Algorithms, Processor Architecture, Discrete Mathematics, Computer Networks, Database Management System

SKILLS

Languages: C/C++, Python, JavaScript, HTML/CSS

Databases: MySQL, MongoDB

Tools: Git/GitHub, Unix Shell, VS Code, IntelliJ IDEA, Jupyter Notebook, Postman, Mockaroo

Frameworks: Express.js

PROJECTS

JGMSA | *React, Firebase, MongoDB, Node.js, Express, Multer*

Dec. 2024 – Present

- Built a secure system for managing patient records, with append access limited to doctors and view-only access for patients.
- Designed user and admin dashboards, allowing one-time uploads for personal information, medical history, and medical reports, and permitting only emergency contact to be edited.
- Planned scalability for potential integration with the National Health Registry.

InventoTrack | *Node.js, Express.js, MongoDB, Bootstrap*

Sept. 2024 – Present

- Developed an efficient inventory management system that streamlines tracking and management of inventory items for businesses, improving overall operational efficiency.
- Created comprehensive reporting and analytics features that allow users to generate insightful reports.
- Built an intuitive and responsive user interface that enhances user experience and allows for easy navigation.

Foveated Rendering | *Python, OpenCV, NumPy, pyautogui*

Oct. 2024

- Optimized CPU performance by dynamically adjusting resolution across foveal, near, and far peripheral regions.
- Added colored boundary markers for resolution regions using OpenCV, improving usability and interaction clarity.
- Implemented real-time gaze and blink detection using Mediapipe for hands-free cursor control.

MovieGo | *Python, Pandas, NumPy, NLTK, Scikit-Learn, TMDB API*

Sept. 2024

- Developed a comprehensive tagging system by extracting and combining features from genres, keywords, production companies, cast, and crew.
- Implemented text normalization and stemming techniques using NLTK to improve the accuracy of the recommendation model.
- Calculated cosine similarity between movie feature vectors.

ACTIVITIES

Seminar Poster Presentation | *Runner-up*

Sept. 2024

Presented a poster on my seminar topic "Foveated Rendering" to industry experts securing 5th position in the department.

Nice CoDay | *Hackathon*

Sept. 2024

Java-SpringBoot based hackathon on industry problem.

MasterCard Code for Change | *Hackathon*

Aug. 2024

Hackathon amongst top colleges of Ahmedabad.