

OM SINGH

Computer Engineering

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SUMMARY

I am currently pursuing a Bachelor of Engineering in Computer Engineering with a strong passion for technology and programming. Proficient in various programming languages and tools like HTML, CSS, JavaScript, and Arduino. I have worked on notable projects, including the development of a UCGV and other innovative systems. I'm keen on leveraging technology to create impactful solutions

EDUCATION

Bachelor of Engineering (B.E.)

Thakur College Of Engineering and Technology

08/2023 - 07/2027 Mumbai

Higher Secondary School Certificate (H.S.C)

Maharashtra State Board

06/2021 - 05/2023 Maharashtra

Secondary School Certificate (S.S.C)

Maharashtra State Board

06/2019 - 05/2021 Maharashtra

PROJECTS

UCGV Project

09/2023 - 01/2024

Design and Development of Unmanned Combat Ground Vehicle (UCGV)

- Developed Control and Calculation Mechanism Page with control code of a working prototype of a UCGV, showcasing innovative thinking and technical expertise

Personal Portfolio

02/2025 - Present

Windows 11 Inspired Portfolio

- Built a browser-based portfolio site inspired by the Windows 11 desktop interface using **React**, **TypeScript**, **Vite**, and **Tailwind CSS**
- Designed a multi-window layout with draggable apps like **Terminal**, and **Project Explorer** for an OS-like experience
- Implemented **Supabase** for data storage, and contact info
- Showcased projects through interactive app windows featuring live previews and rich descriptions
- Focused on **desktop-style UX**, **responsive design**, and **performance optimization**
- Created a distinctive, engaging platform to present skills and personal work in an innovative format

Tunnel Booster Fans Project

10/2024 - 12/2024

Condition-Based Monitoring G Maintenance System for Tunnel Booster Fans

- Designed and developed an innovative landing page and interactive dashboard to visualize real-time fan performance metrics, enhancing user engagement and monitoring efficiency
- Integrated sensor data for anomaly detection and maintenance alerts
- Utilized HTML, CSS, JavaScript, and backend/database integration

Online Mock Test Portal

01/2025 - Present

Frontend development for an Online Mock Test Portal

- Developing an online education platform with **role-based access** for Students, Teachers, and Institutes. Each user type gets a customized dashboard with relevant features.
- Students** receive AI-generated quizzes and instant feedback powered by the **ChatGPT API**, along with performance tracking.
- Teachers** can create dynamic assessments, monitor student progress, and manage content
- Institutes** oversee users, access analytics, and manage operations. Key features include:
- Real-Time Performance Dashboards** for insights and tracking.

KEY ACHIEVEMENTS



VNPS-24

1st Prize in Project Showcase for UCGV Project at VNPS-24



Lean Start-up and Bootcamp

1st Prize in Idea Pitching at Lean Start-up and Bootcamp for pitching a business model based on the UCGV Project

SKILLS

Arduino

C/C++

CSS

Data Structures

Git

GitHub

HTML

Java

JavaScript

MongoDB

OOP

Postman

Python

React

Visual Studio Code

Node.js

CAD

INTERESTS



Mythological Reading

Enjoys reading mythological literature and studying historical artifacts



Antiques Collection

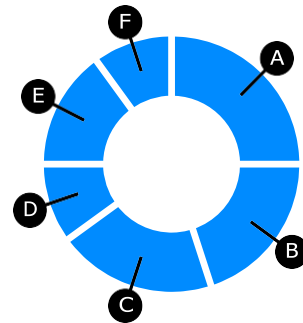
Enjoys collecting antiques as a hobby



3D Cad Modelling

Passionate about designing and modeling in 3D using CAD software

MY TIME



Learning G Skill Development (College, Java, DSA, PLCs, etc.)



Teaching / Mentoring (Classes 8–12, lesson planning)



Technical Work / Practice (Coding, designing, CAD, prototyping)



Documentation G Planning (Research papers, reports, project planning)



Thinking / Idea Development (Conceptualizing new tech, defense ideas)



Breaks / Personal Time (Resting, eating, mythological reading)