SUSHRUTHA

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SUMMARY

A developer specializing in the intersection of mobile technology and intelligent systems. Leverages Flutter, Python (OpenCV), and real-time audio analysis to build applications that can see, hear, and interact with the world—creating software with sensory intelligence.

EDUCATION

Bachelor of Engineering in Computer Science and Engineering   Sep 2023 - June 2027

Mangalore Institute of Technology and Engineering

GPA: 9.29

Relevant Coursework: Data Structures & Algorithms, OOP, Operating Systems, DBMS, Computer Networks, Full Stack Dev, Flutter Mobile Dev.

TECHNICAL SKILLS

- Programming Languages: Java, Python, C, C++, JavaScript, SQL, HTML, CSS, Dart (Flutter)
- Web & Mobile Development: Frontend Development, Web Development, Flutter Development
- Technologies & Tools: Cloud Computing, AI, Cybersecurity, Machine Learning, OpenCV, MediaPipe, Tkinter, Pygame, Sci-Kit
- Databases: PostgreSQL, Supabase, Firebase (basic)
- Version Control: Git, GitHub

PROJECTS

FinTrix - Financial Management App (Flutter, SupaBase)

- Developed a cross-platform mobile app using Flutter to allow users to track personal income, expenses, and savings goals.
- Engineered the backend using Supabase to manage secure user authentication and store transactional data in real-time.

Middle Finger Blur - Computer Vision Tool (Python, OpenCV, MediaPipe)

- Engineered a real-time video processing tool in Python to automatically detect and obscure specific hand gestures for content moderation.
- Utilized the MediaPipe library for high-fidelity hand landmark detection and OpenCV to apply a targeted blur effect.

NaadSwar - Pitch Detection App (Flutter, Audio Processing)

- Developed a Flutter application to provide musicians with immediate, real-time feedback on vocal or instrumental pitch accuracy.
- Implemented a custom audio processing algorithm to analyze raw microphone input and accurately identify the fundamental musical frequency.

TabKeep - Browser Extension for Productivity (Chrome API, HTML, CSS, JS)

- Developed a browser extension for Chromium-based browsers using JavaScript and Chrome APIs to save, manage, and restore tab sessions.
- Utilized the Chrome Storage API to securely sync user sessions across multiple devices, enabling a seamless workflow restoration.
- Designed a minimal, non-intrusive UI with HTML and CSS to prioritize user productivity and ease of use.

ACHIEVEMENTS & ACTIVITIES

Shree Devi's Tech Fest, [DEC 2024] | 1st Place Winner, Blind Coding Competition
- Secured first place in a high-pressure competition requiring participants to code with their monitors turned off.
- Demonstrated profound command of C syntax and logic by writing the entire solution without any visual feedback, relying solely on mental code visualization.
- Produced a bug-free program that passed all test cases upon the first check, proving exceptional accuracy and attention to detail under extreme constraints.

Smart India Hackathon (SIH) 2025 | Participant
- Collaborated in a team to design and develop a comprehensive finance tracking application aimed at improving financial literacy.
- Focused on engineering the application's backend logic and database schema using Supabase.
- Successfully developed a functional prototype and presented the project to a panel of judges.

LICENCES AND CERTIFICATIONS

Introduction to Data Science	Cisco	SEP 2025
Networking Basics	Cisco	AUG 2025
Complete Git and GitHub	Geekster	MAY 2025
AWS Knowledge: Cloud Essentials	AWS Training and Certification	MAR 2025
Certified In Cybersecurity (CC)	ISC2	FEB 2025
Machine Learning with Python	Udemy	FEB 2025
Introduction to Artificial Intelligence	Infosys Springboard	DEC 2023
OpenCV Bootcamp	OpenCV University	DEC 2024