SUSHRUTHA

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SUMMARY

Software developer experienced in building full-stack and real-time applications using Python, React, and Flutter. Strong foundation in data structures, backend integration, and system-level problem solving. Developed production-style systems integrating authentication, databases, APIs, and real-time processing.

EDUCATION   Sep 2023 - June 2027

Bachelor of Engineering in Computer Science and Engineering
Mangalore Institute of Technology and Engineering
GPA: 9.13
Relevant Coursework: Data Structures & Algorithms, OOP, Operating Systems, DBMS, Computer Networks, Full Stack Dev, Flutter Mobile Dev.

TECHNICAL SKILLS

- Languages
  Python, Dart, Java, C++, C, SQL, JavaScript
- Frameworks & Libraries
  React, Flutter, OpenCV, MediaPipe, Supabase, Firebase
- Tools & Concepts
  Docker, Git, MariaDB, REST APIs, Data Structures & Algorithms, OOP

EXPERIENCES:

Manipal Technologies Limited — Software Development Intern
Sep 2025 – Dec 2025 | Manipal, India
- Developed an internal document management system using React and MariaDB to track document uploads, user activity, and timestamps.
- Designed and implemented role-based access control (RBAC) logic to enforce permission boundaries across user roles.
- Designed relational database schema for document metadata, user-role mapping, and access enforcement.
- Collaborated with IT department to refine requirements and deploy a functional internal tool.

PROJECTS

LeetGitBot – Discord Automation Bot | Python, REST APIs
- Engineered a Discord bot integrating LeetCode GraphQL API and GitHub REST API to automate coding progress tracking.
- Implemented scheduled polling mechanism to synchronize external API data and maintain user activity streaks.
- Built scalable command-handling system for multi-user server environments.

mllib – Machine Learning Library in C | C, Low-Level Systems
- Developed a lightweight machine learning library in pure C implementing linear regression via gradient descent.
- Designed custom matrix computation engine with manual memory management.
- Created extensible API architecture without external dependencies.

TabKeep - Browser Extension for Productivity | Chrome API, HTML, CSS, JavaScript
- Built a Chromium-based browser extension using JavaScript and Chrome APIs to manage and sync browsing sessions.
- Integrated Chrome Storage API to enable cross-device session persistence and data recovery.
- Designed lightweight UI using HTML/CSS optimized for usability and minimal performance overhead.

NaadSwar - Pitch Detection App | Flutter, Audio Processing
- Engineered a real-time audio processing pipeline in Flutter to analyze raw microphone input buffers.
- Implemented frequency extraction logic and dynamic mapping to musical note systems.
- Optimized processing flow to reduce latency and maintain smooth user feedback.

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

Docker: A Project-Based Approach to Learning	Udemy	2026
Database Management Essentials	Coursera	2025
Certified In Cybersecurity (CC)	ISC2	2025
Introduction to SQL for BigQuery and Cloud SQL	Coursera	2025
AWS Knowledge: Cloud Essentials	AWS Training and Certification	2025