ATHARVA KOLHE

COMPUTER ENGINEER

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SUMMARY

Practical engineering student with hands-on experience in IoT systems, drones and real-world software projects through hackathons, technical competitions, and freelance work. Focused on building reliable and efficient technical solutions.

SKILLS

Programming: Python, C (Basic), C++, Java
Embedded & IoT: ESP32, Arduino, Sensor Interfacing
Drone Systems: MAVLink, ArduPilot, PX4, Mission Planning, Waypoint Automation
AI & Computer Vision: OpenCV, Image Processing, Classification Algorithms (Basic)
Software Development: Flask, Tkinter, Fast API, Desktop & Web Applications
Databases: SQLite, MySQL (Basic)
Systems & Tools: Linux (Raspberry Pi), Git/GitHub, VS Code, Debugging, Deployment

PROFESSIONAL EXPERIENCE

Freelance Software Developer │ Local Real Estate firm   Nov 2024 - Jan 2025
- Designed and developed a custom software system to manage rental properties, tenants, payments, and maintenance records.
- Implemented expense tracking, rent collection monitoring, and monthly reporting features.
- Automated manual record-keeping, reducing operational errors and improving efficiency.
- Technologies: Python, Tkinter, SQLite

E-Commerce Website │ KK Clothing   Jun 2025 - Present
- Built an online platform for product listing, customer orders, and brand promotion.
- Developed an admin dashboard for managing inventory, orders, and payments.
- Technologies: HTML, CSS, JavaScript

PROJECTS

Development of Integrated Track Monitoring System   Dec 2025
Smart India Hackathon 2025
- Developed a system for real-time monitoring of track conditions using sensors and automated alerts.
- Implemented data processing and reporting for early fault detection.

On-Device AI Image Generation Tool -Qualcomm   Oct 2025
Megathon 2025 -IIIT Hyderabad
- Developed an Android application for local AI-based image generation using device NPU acceleration.
- Optimized models for offline inference and low-latency performance.

Autonomous Drone Navigation & Payload Delivery   **Feb 2026**
SAE.ISS ADDC 2026
- Built a drone system for waypoint navigation, vision-based landing and Payload delivery using MAVLink.
- Integrated onboard processing(Rpi) for autonomous mission control.

IoT-Based Dustbin System   **Aug 2024 - April 2025**
SE mini project / Vigyantram 2019
- Designed an automated dustbin using ultrasonic sensors and controller-based actuation.
- Implemented real-time status display and usage monitoring.

Cloud-Based Notes Sharing Platform   **Aug 2025 - April 2026**
TE mini project
- Developed a web platform for uploading, storing, and sharing academic notes.
- Integrated cloud storage and access control features.

Public Washroom Management System   **Mar 2021**
MGS Thinker Fest 2021
- Developed an automated system to detect odour levels and trigger self-cleaning of urinals, variable speed exhaust control.
- Implemented alert system for timely maintenance.

Smart Home Automation System   **Nov 2019**
Atal Tinkering lab fest
- Developed an automated home system with smart lighting, appliance control, and remote monitoring features.
- Integrated security alerts and accessibility-focused controls for enhanced safety and user convenience.

Project Drishti - Assistive Navigation suit for Visually Impaired   **FEB 2019**
CBSE Science Fest
- Developed a wearable navigation system using LiDAR sensors to detect obstacles in real time.
- Integrated vibration-based feedback to guide users safely during movement.

EDUCATION

Bachelor of Engineering (Computer Science & Engineering)   **Sep 2019 - Sep 2023**
Rajiv Gandhi Institute of Technology- Mumbai University
- Relevant Coursework: Data Structures, Operating Systems, Computer Networks, Internet Programming, IoT.

ADDITIONAL INFORMATION

- **Languages:** English, Hindi, Marathi.
- **Certifications:** Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate(Oct 2025, Oracle Java Programmer Certification(2025).
- **Awards/Activities:** Smart Indian Hackathon(2025) Winner, Vigyantram -IIT Mumbai(2019) Winner, Megathon -IIIT Hyderabad(2025) Runners up, SAE.ISS ADDC Challenge(2026) Winner Design Report, MGS Thinker Fest(2021) Runners up.