

K S SUDHAKAR

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SUMMARY

Final-year Computer Science student with a genuine interest in solving problems through code. Recently gained hands-on experience with AI workflows during an internship at Antz AI, complementing a diverse background in web development and embedded systems. Comfortable working with Python, Java, and C++, and eager to join a collaborative team where I can apply my skills to build meaningful software solutions.

EDUCATION

Amrita Vishwa Vidyapeetham <i>Bachelor of Technology in Computer Science and Engineering; CGPA: 6.84</i>	Coimbatore, India 2022 – 2026
SBOA Matriculation Higher Secondary School <i>Higher Secondary Certificate (HSC); Percentage: 88%</i>	Coimbatore, India Completed 2022

EXPERIENCE

Antz AI <i>AI Engineering Intern</i>	May 2025 – July 2025 <i>Hybrid</i>
<ul style="list-style-type: none">• Gained hands-on experience in developing LLM-powered Retrieval-Augmented Generation (RAG) pipelines.• Integrated vector databases for semantic search and context-driven query processing.• Performed testing, validation, and performance optimization of AI workflows to build scalable applications.	

PROJECTS

Context-Aware Medical Q&A <i>LlamaIndex, Qdrant, Agno Agent</i>	Aug 2025 – Present
<ul style="list-style-type: none">• Built a RAG pipeline by ingesting medical documents with LlamaIndex and storing embeddings in Qdrant.• Orchestrated query handling with Agno Agent and integrated Ollama's TinyLlama LLM to generate domain-specific responses.	
Cloud Pattern Analysis for Aviation Safety <i>Computer Vision, ML</i>	Aug 2024 – Nov 2024
<ul style="list-style-type: none">• Implemented a Digital Image Processing (DIP) system using onboard camera feeds to analyze cloud patterns.• Applied ML algorithms to detect cloud coverage, density, and turbulence potential, providing real-time pilot advisories.	
Formula 1 Fan Hub <i>Web Development, UI/UX</i>	Jan 2024 – May 2024
<ul style="list-style-type: none">• Designed the frontend for an F1-based website supporting video streaming and e-commerce product access.• Focused on creating a strong, responsive user interface design for fan engagement.	
State & City Wise Crime Database <i>DBMS, SQL, Backend</i>	July 2023 – Oct 2023
<ul style="list-style-type: none">• Created a comprehensive DBMS project focusing on detailed cyber-crime records for states and cities.• Implemented CRUD operations to add or remove crime data in the backend with visualization features.	
IoT Based Stock Prediction <i>Embedded Systems, STM32F4</i>	Jan 2023 – May 2023
<ul style="list-style-type: none">• Developed an STM32F4-based system using FSR sensors with ADC calibration for digital conversion.• Integrated UART communication and GPIO-controlled LED indicators for real-time monitoring.	
Movie Ticket Booking System <i>Java, OOP</i>	Aug 2022 – Dec 2022
<ul style="list-style-type: none">• Developed a Java-based application applying OOP concepts like encapsulation and polymorphism.• Enabled users to browse movies, book tickets, and generate confirmations through an interactive system.	

CERTIFICATIONS

Cloud Foundations: GCP And AWS
Cybersecurity: Introduction To Ethical Hacker by CISCO
Coursework: Computer Networks, AI, Cryptography

TECHNICAL SKILLS

Languages: Python, Java, C++, SQL
Tools: Microsoft Suite, Google Suite, Jira
Areas of Interest: Machine Learning, Operating Systems, Web Development, DBMS, Scrum Management