# SIDARTH MURALI

 Chennai ✉ iamsidarth@gmail.com ▢ +919962581028 ▦ in/sidarthmurali-63 ☁ sidarth-murali.pages.dev/

## SUMMARY

I'm a B.Tech student in Computer and Communication Engineering who loves turning ideas into real, working solutions. I've worked on projects involving IoT, blockchain, and AI—always with a focus on solving real-world problems. I enjoy building things from scratch, learning as I go, and I'm not shy about using AI tools to speed things up or explore new approaches. Whether it's writing code, debugging, or collaborating with a team, I'm always eager to dive in and figure things out.

## EDUCATION

### B.TECH CCE

Amrita University · Coimbatore · 2021 2025*
· B.TECH CCE.

### PCM, IP

Kathir Vidyaa Mandhir · Coimbatore · 2020 2021
· PCM, IP.

### Regular + FIIT

Delhi Public School · Coimbatore · 2018-2019
· Regular + FIIT.

## EXPERIENCE

### Intern

**IntersectIQ**                                             **July 2024 – September 2024,  remote**
· Leveraged OpenCV to implement YOLOv10 Models for image processing.
· Conducted image annotation for industrial datasets, enhancing model accuracy.
· Learned and applied MQTT and OPC-UA protocols for client data transfer.
· Collaborated with experienced mentors, utilizing Git for version control.

### Intern

**TATA Telecommunications**                                **July 2023 – August 2023,  Chennai**
· Collaborated in a 4-member team to develop a **responsive CRUD interface** using Angular 12 (frontend) and Flask (backend).
· Integrated a **MySQL database** for efficient data management and storage.
· Used **Git** for version control, ensuring smooth collaboration and streamlined project workflows.
· Gained hands-on exposure to **DevOps practices**, **CI/CD pipelines**, and fundamental **UI/UX design principles** in a production environment.

## SKILLS

PYTHON, SQL, Java basics, OpenCV, YOLO, GIT, Flask, IOT

Project Management, Presentation, Teamwork, Time Management

English, Tamil, Hindi (basic)

## PROJECT

### ColdBlox

Amrita vishwa vidyapeetham · June 2024 – June 2025

- Collaborated with 4 peers under faculty mentorship to build a research-driven cold chain monitoring system.
- Deployed 2 remote slave nodes and 1 master node to simulate real-world logistics.
- Integrated IoT sensors for real-time temperature and humidity tracking with GSM-based data transmission.
- Used Hyperledger + CouchDB for secure, tamper-proof data logging.
- Developed a Supabase-based web dashboard for live monitoring, alerts, and CSV exports.

### Bus Overload and Rash Driving Detection

Amrita vishwa vidyapeetham · January 2024 – June 2024

- Collaborated with 4 peers under faculty guidance as part of a department-wide Open Lab innovation initiative.
- Achieved over **90% accuracy** in real-time passenger counting using MobileNet SSD and Centroid Tracker.
- Enabled **instant alerts and live data visualization** by integrating HiveMQ MQTT and a custom-built dashboard.
- Simulated and tracked **5+ driving scenarios** using a gyroscope and Xbox controller to detect abrupt movements and rash turns.
- Designed to support **scalability across multiple vehicles** for future real-world deployment.

### Discord Chat Bot

Passion · January 2020 – May 2020

- Created a multifunctional chatbot to automate entertainment and utilities for a community of **1,000+ users** on Discord.
- Posted trending memes from Reddit, increasing engagement.
- Provided real-time weather updates using the Weather API.
- Integrated YouTube API for music playback in voice channels, supporting **queueing, looping, and volume control**; handled 1**50+ song requests** weekly.
- Shared random dad jokes and fun content to boost interaction and user retention.
- Developed using `discord.py` with a focus on scalability, minimal latency, and responsive command handling.

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## INVOLVEMENT

### Head

Amrita University · Amrita University – Anokha'24 · January 2024 – September 2024

- Oversaw planning and execution of 50+ tech stalls and exhibitions, leading a team of 20 volunteers.
- Coordinated with industry partners and student teams; ensured 3,000+ visitor footfall.
- Collaborated with sponsors and industry professionals to set up demo spaces.
- Oversaw design of stall layout and signage for better foot traffic management.

### CO-Head

Amrita University · Amrita University – Anokha'23 · July 2023 – August 2024

- Managed scheduling, stall layout, and volunteer coordination for 21+ student tech projects.
- Managed scheduling, team allocation, and on-the-day coordination with faculty leads.
- Handled last-minute logistics, AV equipment setup, and issue resolution during the event.

### Class Rep

Amrita University · Amrita University · February 2022 – June 2024

- Represented a batch of 78 students, acting as liaison between faculty and students.
- Organized academic discussions, managed feedback collection.
- Coordinated class schedules, attendance reporting, and session rescheduling.