

JAYDEEP SOLANKI

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Summary

Electronics & Communication Engineering student with expertise in full-stack development and AI integration. Proven track record of building scalable applications using Python, FastAPI, and modern frameworks, deployed on GCP and AWS. Demonstrated leadership in competitive environments with multiple national-level achievements. Passionate about creating innovative IoT and AI-powered solutions.

Work Experience

Project Intern

May 2025 – June 2025

Ellipsis Infotech, Ahmedabad

Hybrid — GitHub

- Developed IoT AC Control Management System with real-time remote monitoring for 100+ devices across multiple zones
- Built FastAPI backend with JWT authentication, WebSocket integration, and PostgreSQL database; deployed on Google Cloud Run
- Programmed ESP8266 firmware in C++ supporting multiple AC brands with OTA updates and Wi-Fi setup portal
- Created responsive Next.js dashboard with AI-assisted UI development, achieving <500ms command latency via MQTT

Technical Skills

Programming Languages: Python, C, C++, Embedded C, MicroPython, SQL, HTML, CSS, JavaScript, Bash

Frameworks & Libraries: Flask, FastAPI, Django, React, Next.js, PyTorch, scikit-learn, NumPy, Pandas

Databases: MySQL, PostgreSQL, MongoDB

Tools & Platforms: Git, Docker, Google Cloud Platform (GCP), Amazon Web Services (AWS), PlatformIO

Networking & Protocols: REST APIs, WebSockets, MQTT

Operating Systems: Linux, Windows

Key Projects

GitResume: AI-Powered Resume Generator

Live Demo — GitHub

Python, FastAPI, Jinja2, Tailwind CSS, Redis, GitHub API, Docker, Tree-sitter

May 2025

- Built full-stack web app converting GitHub repositories into ATS-optimized resume content, serving 200+ repositories
- Integrated multiple AI providers (Gemini, OpenAI, Groq, Claude) with FastAPI backend for scalable content generation
- Implemented tree-sitter engine for automated repository analysis and technology extraction
- Enhanced security with Redis caching, GitHub OAuth, rate-limiting, and DDoS protection

Model Satellite Telemetry & Camera System

GitHub

Python, Flask, WebSockets, asyncio, Raspberry Pi, Computer Vision

Sep 2024

- Developed real-time telemetry system with WebSocket streaming from Raspberry Pi to ground station
- Implemented high-framerate MJPEG video server with autonomous mission state management
- Designed robust CSV logging with auto-backup and finite state machine for sensor-based control

Ground Station Visualization Interface

GitHub

Python, PySide6, VTK, Leaflet Maps, WebSockets

Apr 2023

- Created comprehensive GUI for real-time telemetry visualization with 3D orientation display using VTK
- Integrated live GPS tracking with custom Leaflet map overlays and multi-threaded data pipeline
- Built modular CSV system for telemetry logging with WebSocket and Flask integration

Leadership & Extracurricular Activities

Mentor

Oct 2024 — Present

Team Dyaus, SAE Nirma University

Ahmedabad

- Mentored 15+ members in hardware/software troubleshooting, improving competition performance and team collaboration
- Developed strategic competition approaches and maintained team website: teamdyaus.space
- Facilitated knowledge sharing sessions and skill-building initiatives for technical growth

Vice Captain

Apr 2024 — Sep 2024

Team Dyaus, SAE Nirma University

Ahmedabad

- Led project timeline and resource allocation for Teknofest 2024, securing 9th place among 100+ international teams
- Managed budget planning and financial optimization for efficient team operations
- Coordinated cross-functional teams to deliver competition-ready satellite systems

Education

Institute of Technology, Nirma University

Aug 2022 — May 2026

B.Tech in Electronics & Communication Engineering

CGPA: 7.9/10

- **Relevant Coursework:** Machine Learning, IoT Analytics, Embedded Systems, Image Processing, Digital Signal Processing, Computer Architecture, Cloud Computing

Accomplishments

- **CanSat India 2022** — Runner-Up (2nd/50+ teams) — Repository
- **Teknofest 2024** — Model Satellite Competition (Rank 9/100+ international teams) — Certificate
- **Flipkart Grid 5.0** — Robotics National Finalist (Top 10/80+ teams) — Certificate
- **Google Cloud Computing Foundations** — Certified (IIT Bombay) — Credential