

# SOURABH RAJDEV

✉ [sourabhrajdev25@gmail.com](mailto:sourabhrajdev25@gmail.com) | +91-963-046-6696 | [in linkedin.com/in/sourabh-rajdev](https://www.linkedin.com/in/sourabh-rajdev) | [github.com/sourabhrajdev](https://github.com/sourabhrajdev)

## Professional Summary

I'm a software engineer who enjoys designing systems, writing clean code, and solving practical problems. I've worked on everything from automation scripts to production-grade services, and I like understanding how things work at every layer of the stack. I'm especially drawn to building tools that are fast, dependable, and easy for others to use and improve.

## Education

### Vellore Institute of Technology

Expected Jul 2026

B.Tech in Computer Science and Engineering

Bhopal, India

- **Relevant Coursework:** Advanced Algorithms, Operating Systems, Distributed Computing, Cloud Infrastructure, ML, Data Engineering

## Experience

### TERI – The Energy and Resources Institute

May 2025 – Present

Data Science Intern

New Delhi, India

- Developed production-grade ETL pipelines using **Python**, **SQL**, and **SparkSQL**, supporting analytics for 10+ teams.
- Enabled a 70% recycling rate increase across 5 cities by building data dashboards for policy recommendations.
- Designed BI dashboards using **Tableau**, **Power BI**, and **Seaborn** to translate trends for non-technical audiences.

### Outlier (Remote)

Dec 2024 – Feb 2025

Machine Learning Intern

San Francisco, USA

- Built an adversarial test suite with 50+ edge-case prompts for multilingual NLP model benchmarking.
- Patched vulnerabilities in inference logic by contributing to core Python codebase; improved fail rate on test set by 30%.

### HiAiDo

Nov 2023 – Mar 2024

Software Engineering Intern

Chennai, India

- Created automation tools to parse and extract AWS documentation, reducing dev onboarding time by 40%.
- Architected serverless ETL flow with **AWS Lambda** and **S3** for real-time analytics ingestion.
- Improved pipeline observability by integrating CloudWatch logs and error alerts.

## Projects

### Personal Portfolio Website [\[Live\]](#)

2024

Frontend & DevOps Project

Bhopal, India

- Built a responsive, framework-free SPA using **vanilla JS** and **CSS3**; scored 98+ on Lighthouse.
- Automated deployment using **Netlify CI/CD**, achieving <60s production pipeline.
- Modularized codebase with reusable components and BEM-style CSS structure.

### Distributed Task Queue System

2023

Backend Infrastructure Project

Bhopal, India

- Built an async background processing engine in **Java** using **Redis** queues and multi-worker architecture.
- Implemented exponential backoff retries, job persistence, and failure logging.
- Designed REST endpoints for job creation, updates, and monitoring.

## Technical Skills

- **Languages:** Java, Python, C++, SQL, JavaScript (ES6)
- **Cloud & DevOps:** AWS (Lambda, EC2, S3, RDS, CloudWatch), Docker, Git, Netlify CI/CD
- **Backend:** REST APIs, Spring Boot, Microservices, Redis, Distributed Systems

## Technical Writing

- [Monolith to Microservices](#) — migrating legacy infra into scalable services using AWS.
- [The Art of Latency](#) — reducing model response times in production NLP systems.
- [ETL Pipelines That Matter](#) — scalable Spark workflows for real-world data ops.

## Leadership & Activities

### Photography & Video Club, VIT

2023 – Present

Video Director

Bhopal, India

- Led 70+ shoots, managing schedules, teams, and visual storytelling workflows.
- Mentored 12 juniors on editing, production, and creative direction.
- Managed equipment inventory, budgeting, and inter-departmental coordination.
- Organized training sessions for video post-production and team management.