

# SOURABH RAJDEV

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## Education

### Vellore Institute of Technology

Expected Jul 2026

Bachelor of Technology in Computer Science and Engineering

Bhopal, India

- **Relevant Coursework:** Data Structures & Algorithms, Object-Oriented Design, Distributed Systems, Database Management Systems, Operating Systems, Software Engineering

## Technical Skills

- **Programming Languages:** Python, Java, C++, JavaScript, SQL
- **Core CS Fundamentals:** Data Structures & Algorithms, Object-Oriented Design, Complexity Analysis, Problem Solving
- **Systems & Tools:** AWS (Lambda, S3, CloudWatch), Git, Docker, PostgreSQL, REST APIs, Node.js, React

## Experience

### TERI – The Energy and Resources Institute

May 2025 – Present

Software Engineering Intern

New Delhi, India

- Built ETL data pipelines using **Python, Java, and SQL** processing 100K+ records daily with error handling and data validation, supporting policy recommendations that achieved **70% recycling rate increase across 5 cities**.
- Developed data visualization dashboards using Tableau, Power BI, and Python (Seaborn) serving **10+ teams**, implementing query optimization that reduced dashboard load times by **60%**.
- Created automated data quality validation scripts using Python, reducing data inconsistencies by **85%** through systematic checks.
- Collaborated with policy analysts and data scientists in **agile environment**, participating in sprint planning and iterative development.

### Outlier AI (Remote)

Dec 2024 – Feb 2025

Machine Learning Intern

San Francisco, USA

- Built test suites with **500+ edge-case prompts** for NLP model evaluation, improving model accuracy by **15%** and reducing test suite fail rate by **30%**.
- Contributed to core Python codebase, optimizing model inference logic and applying algorithmic improvements that reduced processing latency by **40%**.
- Earned **\$485 in first 12 hours** through efficient task completion, demonstrating ability to work with ambiguous requirements.
- Worked with distributed engineering teams using Git for version control, conducting code reviews on Python libraries.

### HiAiDo

Nov 2023 – Mar 2024

Software Engineering Intern

Chennai, India

- Built automation tools for AWS documentation parsing using Python, reducing developer onboarding time by **40%** and saving **120+ engineering hours monthly**.
- Developed **serverless ETL workflows** using **AWS Lambda and S3**, handling 10K+ document operations daily with retry logic and error handling.
- Implemented infrastructure automation scripts that reduced deployment time from hours to minutes.

## Projects

### DailyAffairs.org – News Aggregation Platform [\[Live\]](#)

Oct 2024 – Present

Full-Stack Developer

Remote

- Built news platform from scratch using **React.js, Node.js, and PostgreSQL**, serving **358 active users pre-launch (prototype) across 15+ countries** with **2.3K+ engagement events** and **6.4 events per user**.
- Designed multi-tiered architecture with React frontend, Node.js/Express API, PostgreSQL database, and Cloudflare CDN for content delivery.
- Implemented real-time updates using WebSockets and optimized database queries with proper indexing, reducing query execution time by **75%** and improving page load performance by **40%**.
- Set up CI/CD pipeline with automated testing and deployments using GitHub Actions, enabling **weekly release cycles**.

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

2024

Frontend Developer

Remote

- Built responsive single-page application using vanilla JavaScript and CSS3, achieving **98+ Lighthouse performance score**.
- Implemented performance optimization techniques including lazy loading, asset compression, and efficient DOM manipulation.

## Certifications & Achievements

- **Oracle Certified Professional: DevOps Engineer** – Infrastructure automation and CI/CD pipelines (2025)
- **Oracle Generative AI Cloud Certified Professional** – Oracle's Generative AI Cloud services (2025)
- Published **15+ technical articles** on Medium covering distributed systems, microservices, and data engineering topics
- Leading **70+ member** Photography & Video Club at VIT as Video Director, managing projects and mentoring 12 junior members