

Gourav Barnwal

Software Engineer (Fresher) | Full Stack Developer (React, FastAPI, PostgreSQL)

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[GitHub](https://github.com/GouravBarnwal)

[LinkedIn](https://www.linkedin.com/in/grv1404)

[Portfolio](https://gouravs-portfolio.vercel.app/)

Professional Summary

Final-year B.Tech Computer Science student with hands-on experience in full-stack development using React, FastAPI, PostgreSQL, and REST APIs. Built production-level applications with authentication, real-time data processing, and scalable backend systems. Strong foundation in DSA, OOP, and DBMS.

Professional Experience

Oct 2025 – Dec 2025

Boston, Massachusetts, US

AI Software Engineer Intern, AI Product Manager Accelerator Program

- Integrated frontend and backend using React.js and FastAPI, with PostgreSQL for persistent data storage and retrieval.
- Processed 1000+ financial datapoints from news and social media, generating real-time sentiment-based stock rankings.

Jul 2025 – Aug 2025

Remote

AI/ML Intern - Classification of Fire Types in India Using MODIS Satellite Data,

AICTE × Edunet Foundation × Shell

- Analyzed MODIS fire data (2021–2023) to classify fire types (vegetation, static, etc.)
- Trained and optimized the Random Forest classifier on 23,000+ MODIS datapoints, achieving 97.8% accuracy.
- Built and **deployed** a machine learning application using Python-libraries & Streamlit.

Jun 2025 – Jul 2025

Ranchi

Software Development Intern,

National Institute of Advanced Manufacturing Technology (NIAMT), Ranchi

- Built a full-stack app for attendance automation using React.js, Flask, Firebase
- Added OTP login, email alerts, SBI Collect integration
- Role-based access with real-time updates

Projects

TickerPulse — Stock Trend & Sentiment Tracker (ReactJS, FastAPI, PostgreSQL)

Engineered FastAPI services and PostgreSQL pipelines to process large-scale financial data including stock mentions for companies like AAPL and fintech stocks, generating real-time sentiment-based rankings.

Deforestation Fire Classification (Using Modis csv data)

Developed a machine learning model to classify fire types using MODIS satellite data based on brightness and FRP. Built interactive maps and validated predictions using real fire occurrence data (2021–2023). Best Accuracy obtained by Random forest - 97.8%.

Students Attendance Monitoring and Alert Generation System (ReactJS, Firebase, Flask)

Built a full-stack attendance automation system used by 150+ students, reducing manual attendance effort by 60% using React, Flask, Firebase.

Technical Skills

Core CS — Data Structures and Algorithms (DSA), SQL, Object-Oriented Programming (OOP), DBMS, Operating Systems, Computer Networks

Front-end — React, HTML, CSS, JavaScript, Tailwind

Backend — FastAPI, Node.js, REST APIs

Database — PostgreSQL, MongoDB

Machine Learning — Python, Scikit-learn, Pandas, NumPy, Matplotlib

APIs — RestAPIs, Email/OTP Auth, Postman

Tools — Git, GitHub Actions, Render, Netlify, Streamlit

Achievements & Recognition

Letter Of Recommendation(NIAMT)

- LOR from NIAMT Ranchi for performance in full-stack internship (June–July 2025)

Google Student Ambassador

- Promoted Gemini by conducting events, hackathons and the use of LLM tools.

Certificates

Data Analytics Workshop, IIT, Kharagpur
| Jan, 2024

Internship Certificate, NIAMT Ranchi —
Jun-Jul 2025

Education

Dec 2022 – Aug 2026
Ranchi, Jharkhand

Bachelor's in Computer Science & Engineering, Government Engineering College, Ramgarh
CGPA : 7.27