Jay Bhuptani

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GitHub — Portfolio — LinkedIn

Work Experience

Adiance Technologies · Dec 2025 – Present
Full Stack Intern

- **Developed** a high-conversion landing platform featuring **adaptive responsive layouts**, consistently capturing **10+ organic business leads daily**.
- **Orchestrated** a comprehensive testing suite for **camera hardware APIs**, ensuring 99% stability for real-time video streaming modules.
- **Overhauled** backend API response cycles, achieving a **30% increase in deployment velocity** and significantly reducing system latency.

ISRO – Space Applications Centre (SAC) · Jun 2025 – Aug 2025
Research Intern

- **Spearheaded** a high-performance WebGIS platform using **React and OpenLayers** to visualize 7+ satellite datasets and **200,000+ geospatial data points**.
- **Slashed GIS load times by 60%** through optimized data processing pipelines, directly supporting the climate research of **50+ research scientists**.

Data Vidwan · Apr 2025 – Dec 2025
Full Stack Developer Intern

- **Deployed** two enterprise-grade MERN applications with performance-focused enhancements that **boosted user engagement by 35%**.
- **Maintained** scalable AWS infrastructure with automated deployment scripts, achieving a consistent **99.9% system uptime**.

Projects

DuoTrack – AI-Powered Productivity · MERN, Socket.io, Gemini AI

- **Integrated Gemini AI** to provide personalized productivity insights and behavioral analysis for **long-distance couples**, currently supporting **10+ active pairs**.
- **Constructed** a multi-modular tracking system with real-time synchronization via **Socket.io**, improving user accountability through live notifications.

Elderly Health Monitoring System · **Rank 1/700+** — MERN, Python, IoT

- **Winner — Code Unnati Innovation Marathon 3.0**: Secured 1st place among **700+ teams** for an IoT system integrating **Pulse, SpO2, and Body Temperature sensors**.
- **Pioneered a Multi-Sensor Fusion** module using an **ESP32 and Python-based ML** to detect falls, reducing emergency response time by **30%**.

CineVault – Social Movie Platform · MERN Stack

- **Architected** a recommendation engine and real-time messaging system, allowing users to track and discuss a library of **1,000+ movie titles**.
- **Elevated user retention** by engineering custom watch-lists and personalized discovery features to improve content discovery.

UptoDate Dating App · **IEEE Published** — React Native, ML, AWS

- **Authored Research** in IEEE Proceedings based on a custom semantic matchmaking algorithm validated across **20+ colleges**.
- **Refined ML models** on a dataset of 20,000+ profiles to maximize compatibility accuracy for **1,000+ monthly users**.

Education

Unitedworld School of Technology, Karnavati University · 2022 – 2026
B.Tech in Computer Science and Engineering · CGPA: 8.86 / 10

Technical Skills

Languages: JavaScript, Python, Java, C, Bash
Frameworks: React.js, Node.js, Express.js, Next.js, Redux, React Native, Tailwind CSS

Databases: MongoDB, MySQL, PostgreSQL
Tools: AWS, Firebase, Git, GitHub, Postman, Linux, IBM Cloud, Figma, Vercel

Achievements

- **Winner** — GTU Code Unnati Innovation Marathon 3.0 (Outperformed **700+ teams**).
- **Winner** — Karnavati University Hackathon (Top team among 120+ participants).