

Jayant Sunil Potdar

Full Stack Developer Intern

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Professional Summary

Product-focused Full Stack Developer Intern with hands-on experience building AI-powered, production-ready web platforms using React, TypeScript, Node.js, REST APIs, JWT auth, databases, and deployment tools. Led teams for NeuralNet and Krypton, built AstroPixel solo, and strong in clean UI/UX, scalable APIs, and shipping real products from idea to live deployment.

Technical Skills

Languages

JavaScript, TypeScript, Python, Java, C++, Rust

Databases

PostgreSQL, MongoDB, MySQL, SQLite, Prisma, SQLAlchemy

Frontend

React, Next.js, Tailwind CSS, Three.js, GSAP, Framer Motion

AI/ML

TensorFlow/Keras, Google Gemini API, LangChain, scikit-learn

Backend & APIs

Node.js, Express.js, FastAPI, Flask, Spring Boot, Redis, REST APIs, JWT Auth, WebSockets

Tools & Deployment

Git, GitHub, Docker, Linux, Vercel, Render, Supabase, Postman

Notable Projects

AstroPixel (Solo Full Stack Project) 3rd Place - Ideation 3.0

Live | GitHub

Deep-tech platform for exploring NASA gigapixel imagery with secure upload, tiling, deep zoom, annotations, and admin workflows.

Tech: React, Vite, Tailwind CSS, FastAPI, SQLAlchemy, OpenSeadragon, GDAL, PostgreSQL/SQLite, JWT, Docker, Cloudflare R2-ready

- Built GeoTIFF/PSB ingestion, GDAL tile pyramid generation, OpenSeadragon viewer, persistent annotations, and role-based access control.
- Created REST APIs for uploads, metadata, auth, admin review, health checks, rate limiting, and Docker-ready deployment.

NeuralNet (Team Leader) Capstone Project

Live | GitHub

Full-stack visual deep learning studio for designing, training, and serving neural networks from a drag-and-drop graph interface.

Tech: React 18, Vite, Tailwind CSS, Zustand, XYFlow/React Flow, Monaco Editor, Recharts, FastAPI, TensorFlow/Keras, SQLite/Turso, JWT

- Led development of a node-based model builder that converts graph JSON into executable TensorFlow/Keras code.
- Implemented authenticated project workflow, dataset loaders/uploads, live training metrics, model storage, API-key deployment, and prediction endpoints.

Krypton (Team Leader) 1st Place - Project Expo

Live | GitHub

AI research assistant that helps students discover, rank, and understand academic papers faster from arXiv and OpenAlex.

Tech: FastAPI, React, Tailwind CSS, Framer Motion, SQLAlchemy, SQLite, Gemini API, arXiv API, OpenAlex API, scikit-learn

- Built relevance ranking using TF-IDF, recency, citation weighting, and personalized scoring based on user interests and goals.
- Integrated Gemini-powered summaries, structured insights, research-gap analysis, topic suggestions, JWT auth, profiles, history, and TTL caching.

3D Portfolio Website (Solo Project)

Live | GitHub

Interactive space-themed portfolio showcasing projects, achievements, skills, and contact flow through advanced motion and 3D UI.

Tech: React, Three.js, React Three Fiber, Spline, Tailwind CSS, GSAP, Framer Motion, EmailJS, Vite

- Built custom 3D sections, animated models, particle systems, elastic cursor, smooth scroll transitions, and responsive mobile-first UX.
- Structured portfolio around recruiter-facing sections: hero, skills, projects, achievements, testimonials, and contact.

Additional Projects

Malaria Detection System (Team Leader)

Tech: React, Vite, Tailwind CSS, Supabase, PostgreSQL, FastAPI

AI-powered hospital workflow dashboard with patient management, report generation, real-time analytics, auth, and medical UI focused on usability.

Nova-Learn (Team Project)

Tech: React, Flask, Socket.IO, LangChain, SQLite, Spline 3D

AI-powered learning platform generating personalized paths, interactive quizzes, real-time features, and persistent progress tracking.

Leadership & Achievements

Head of Web Development, TechSpark Technical Club, MSSU Pune (2nd Year)
Web Co-Head, TechSpark Technical Club, MSSU Pune (1st Year)
Event Head - Pixel Perfection Hackathon, managed 100+ participants
1st Place - University-Level Hackathon; 1st Place - Center - Level Hackathon
1st Place - Project Expo (Krypton); 3rd Place - Ideation Competition 3.0 (AstroPixel)

Certification

IBM Full Stack Software Developer - IBM
CS50 & CS50-SQL - Harvard University
Responsive Web Design - freeCodeCamp
IT Specialist - HTML/CSS & Databases - Certiport

Education

B.Tech - Ratan Tata Maharashtra State Skills University

2024 - 2028 | CGPA: 8.0

Relevant Fundamentals: DBMS, SQL, OOP, REST API design, authentication, Linux CLI, networking basics, scalable backend thinking, and DSA practice.