

Piyush Sagar

Engineering Undergraduate

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Profile

Results-driven Information Technology undergraduate with strong leadership, collaboration, and problem-solving skills. Experienced in full-stack development, cloud technologies, and building scalable applications. Passionate about leading initiatives, managing projects, and transforming ideas into impactful technical solutions. Actively exploring AI/ML and emerging technologies.

Education

Vellore Institute of Technology, Vellore

B.Tech in Information Technology

2024 – 2028 (Expected)

CGPA: 9.43

Ramakrishna Mission Vidyapith, Deoghar

Class XII, Deoghar, Jharkhand

2022 – 2024

Final Score: 93%

Technical Skills

Languages: C, C++, Java, Python, JavaScript, TypeScript

Frontend: HTML, CSS, React.js, Next.js

Backend: Node.js, Express.js, REST APIs

Databases & BaaS: PostgreSQL, MongoDB, Firebase, Supabase, SQL

Cloud & DevOps: AWS, Docker, Kubernetes, Vercel

Developer Tools: Git, GitHub

Currently Exploring: Artificial Intelligence, Machine Learning, Go (Golang)

Projects

Gehna Photo Studio – AI-Powered Jewellery Photography Platform

[GitHub]

- Developed a full-stack AI-powered jewellery photography platform using React, TypeScript, Next.js, and Node.js.
- Integrated Hugging Face FLUX.2 Klein 4B to generate jewellery-on-model images from product photographs.
- Built a private image workspace with secure authentication, persistent galleries, image comparison, and WebP downloads.
- Implemented backend workflows using PostgreSQL, cloud object storage, encrypted API credentials, and asynchronous AI inference.
- Deployed on Vercel with a focus on secure architecture and cost-efficient AI integration.

API Tools – Full-Stack Developer API Platform

[GitHub]

- Designed and developed a full-stack developer API platform offering DNS intelligence, UPI utilities, and infrastructure services.
- Architected backend API endpoints, authentication systems, API key management, and subscription-based rate limiting.
- Built responsive dashboards, developer portals, and comprehensive API documentation for seamless third-party integration.
- Developed DNS query services, UPI payment link generation, IFSC lookup, and dynamic QR code generation utilities.
- Managed end-to-end development, integrating frontend, backend, and API services with a focus on scalability, security, and maintainability.

Dev Events – Full-Stack Event Management Platform

[GitHub]

- Built a full-stack event management platform using Next.js and TypeScript.
- Implemented RESTful API routes for creating, updating, deleting, and retrieving event data using MongoDB and Mongoose.
- Integrated Cloudinary for cloud-based image uploads and media management.
- Developed dynamic event pages supporting event discovery, registration, and related events.
- Applied Next.js caching and modular architecture to improve performance and maintainability.

Interests

- Exploring Artificial Intelligence, Machine Learning, and emerging technologies.
- Expanding expertise in cloud computing, distributed systems, and scalable applications.
- Interested in technical leadership, project management, and collaborative problem-solving.
- Passionate about continuous learning, innovation, and building impactful solutions.