

Piyush Patil

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EDUCATION

Pimpri Chinchwad College of Engineering

Bachelor of Technology in Computer Engineering; CGPA: 8.12/10.0

Pune, India

Aug. 2023 – Jun. 2027

Vidya Mandir Junior College

Higher Secondary Certificate (HSC); Percentage: 79.50%

Miraj, India

Jun. 2021 – Mar. 2023

TECHNICAL SKILLS

Programming Languages: C, C++, Python, JavaScript

Web Development: React.js, Node.js, Express.js, MongoDB, MySQL, TailwindCSS, REST APIs

AI/ML & Data: Machine Learning, Data Analysis

Tools & Platforms: Git, GitHub, VS Code, Postman, JWT Authentication, PowerBI

Soft Skills: Team Player, Adaptability, Time Management, Leadership & Initiative, Collaborative Mindset

WORK EXPERIENCE

Ex-Automation Engineer & Ex-Web Development Lead

Apr. 2024 - Oct. 2025

Team Anantam Rocketry and Space Research, PCCOE

Pune, India

- Developed GUI-based Ground Station for real-time telemetry and Thrust Bed interface for rocket motor testing
- Engineered Active Fin Control System and Gyroscope Reaction Wheel stabilization for aerospace applications
- Developed and maintained the official team website.

Ex-Technical Head

Oct. 2024 - Oct. 2025

PCCOE ACM Student Chapter

Pune, India

- Contributed to web development projects using MERN stack
- Conducted collaborative coding sessions and technical meetups

In-House Intern

Dec. 2025 - Jan. 2026

Pimpri Chinchwad College of Engineering

Pune, India

- Developed UniSphere, a MERN-based college event management platform with role-based dashboards, smart QR attendance, and automated workflows.
- Implemented secure authentication, real-time analytics, and scalable UI components while collaborating in team-based development sessions.

PROJECTS

Ocean Guard | React.js, Python, Flask, Computer Vision, Geospatial APIs(www.data.gov.in), Git

2025

- Built AI-powered marine safety system with 92% accuracy for oil spill detection using deep learning and computer vision
- Integrated real-time geospatial data to predict spill trajectory and visualize on interactive maps
- Implemented automated alert workflow notifying authorities within 10 km radius with progress tracking

Prescripto | React.js, Node.js, Express.js, MongoDB, JWT, Payment Gateway APIs, Git

2025

- Developed full-stack hospital appointment system with role-based authentication
- Integrated secure payment gateway for seamless transactions, reducing booking time
- Designed responsive dashboards with real-time updates for appointment management

UniSphere | Live | Next.js, Tailwind CSS, Node.js, Express.js, MongoDB, JWT, Git

2025 - Ongoing

- Built a centralized college event management system for handling events, registrations, attendance, budgets, and communication across clubs.
- Implemented a secure Smart Attendance System using dynamic QR codes to prevent proxy/fake attendance.
- Developed role-based dashboards and analytics for students, club admins, and super admins with automated notifications and certificate generation.

ACHIEVEMENTS & CERTIFICATIONS

Certifications: CS50 Introduction to Computer Science (Harvard), McKinsey Forward Program, Data Structures in C++ (Scaler), Data Analysis with Python (FreeCodeCamp)

Competitive Programming: HackerRank 5-Star (C & C++), CodeChef 2-Star, Completed GFG160 DSA Challenge

Honors: 2nd Runner-Up IEEE Ideathon, Smart India Hackathon Participant