

Jay Patil

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SUMMARY

Computer Science and Engineering student with hands-on experience in front-end web development, IoT systems, and software engineering. Skilled in React, JavaScript, Python, C++, HTML/CSS, and database management with strong foundations in Data Structures and Algorithms, Object-Oriented Programming, and problem-solving. Experienced in developing responsive web applications, IoT-based smart systems, and real-time monitoring solutions using Raspberry Pi and sensor integration. Familiar with Git, Docker, MySQL, MongoDB, and modern development workflows. Seeking Software Development, Frontend Development, and Full Stack Development opportunities.

EDUCATION

Pimpri Chinchwad University

B.Tech. in Computer Science and Engineering (CGPA: 8.15)

Aug. 2023 – Aug. 2027

Pune, Maharashtra

Relevant Coursework

- Data Structures and Algorithms
- Internet of Things (IoT)
- Web Development
- Operating Systems

EXPERIENCE

Raftaar

Freelance Frontend Developer

Jan. 2025 – Feb. 2025

Remote

- Developed and deployed a responsive company website using HTML, CSS, JavaScript, and React
- Collaborated with the client to implement UI requirements and improve overall user experience
- Optimized responsiveness and layout compatibility across desktop and mobile devices

PROJECTS

CropSense — IoT-driven Smart Farming System | Raspberry Pi, Sensors, Python, IoT

- Developed an IoT-based farming system using Raspberry Pi and environmental sensors for real-time monitoring
- Implemented crop disease detection and smart alert systems to improve monitoring efficiency
- Integrated automated recommendations and real-time tracking, increasing crop yield by 30%

FarmLens — AI Crop Disease Detection System | Python, FastAPI, Flutter, Node.js, SQL

- Built a cloud-based AI platform that performs end-to-end data ingestion, transformation, and leaf image classification for crop disease detection
- Designed and integrated a FastAPI backend handling a real-time data pipeline from mobile input to model prediction output
- Implemented machine learning and computer vision pipelines for disease identification with structured data modeling for storing and managing prediction records

ACHIEVEMENTS

- Winner (1st Place) — Ideathon 2.0 @ PCU (2025) for *CropSense*
- Runner-up (2nd Place) — Ideathon 1.0 @ PCU (2024) for *EcoCred*
- Finalist — NIRMAN 2025, Amity University (2025) for *CropSense*

TECHNICAL SKILLS

Languages: Python, Java, C/C++, HTML/CSS, JavaScript

Developer Tools: VS Code, Docker, GitHub, Git

Technologies/Frameworks: React, REST APIs, Flask, IoT

Databases: MySQL, MongoDB

EXTRACURRICULAR

- **Institution Innovation Council - Pimpri Chinchwad University** | *Volunteer* | Nov. 2024 – Mar. 2025
 - Organized technical seminars, interactive sessions, and innovation competitions for university students
 - Facilitated workshops on emerging technologies and entrepreneurship development
- **IEEE Student Chapter** | *Secretary* | Aug. 2024 – May 2025
 - Managed operations and coordinated between chapter leadership and 50+ student members
 - Organized technical events, guest lectures, and skill development workshops