

Pratik Pakhale

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EDUCATION

Indian Institute of Information Technology, Dharwad

2021-2025

7th Semester (8.18 CGPA), Bachelor of Technology in Computer Science and Engineering

EXPERIENCE

Google Summer of Code | PEcAn Project

2024

Contributor

Remote

- Integrated JSON data schema (management-event-schema) into PEcAn's FieldActivity R Shiny application, enabling it to read variable information from the schema and store management activity data in a compliant and flexible manner.
- I built an **individual JSON Schema parser** and then integrated it in the main app. Also worked on storing multiple incidents for specific management cases, enhancing the data structure to support complex scenarios.

IIT Bombay | Affect Aware System and QGIS LMS Platform

2023

Research Intern and Developer

IIT Bombay

- Developed an **advanced learning system** utilizing video bots for enhanced student engagement.
- Implemented an adaptive feedback platform using React & ExpressJS, a Flask server running the deep learning model, and improved learning outcomes. This software that can be run locally using **Docker** or through an **Electron installation** for portability.
- Working on GeoGuru, a Learning Management System that incorporates a geographical information system. Working as the **lead backend developer and handling devops** to build a scalable APIs.

VIKRAM - Arthlex Research Private Limited

2023

AI Architect

Remote

- Directed the building process of vikrambots.ai, a platform that allows the creation and sharing of bots powered by LLMs.
- Managed AWS EC2 hosting and **DevOps**, integrated **NextJS** with Typescript, Flask with **Langchain**, and Weviate **Vector Database**.

Additional Experience

Other notable experiences

- Co-founder** and CEO of **DevForces**. Making competitive development more fun and rewarding.
- Research Intern - **IKS Text Analytics**. Data mining algorithm using PFP growth
- Project Lead - **Institue Website IIIT Dharwad**. Led a team of 15 developers and designers using the Agile framework to build the new college website.

PERSONAL PROJECTS

vChar

The AI researcher which researches across web to find the solution you are looking for

- Developed the **RAG application** completely local and with in-house tools for agents to use.
- Used llama3 and mixedbread embeddings for RAG, built a low-latency browser API for faster web querying and more.

Rewind

A social media platform powered with generative AI technologies solely built for music lovers.

- Primarily developed an AI-driven social media platform catered to music enthusiasts using TypeScript Node, React, and Python.
- Led the design and implementation of a **voice bot for enhanced website interaction**, including post-creation and advanced search functionalities.

Event Management

The complete event management website for club events from registering to ticketing.

- Solely created a one-stop online platform for managing club events, including registration and ticketing, using MERN stack, TailwindCSS, and Netlify Lambda.
- Successfully maintained flawless operation handling over **100k API calls**.

TECHNICAL SKILLS AND INTERESTS

Languages: TypeScript, JavaScript, Python, R, Java, C, C++, SQL, HTML, CSS, Shell Scripting.

Tools: Docker, GitHub Actions, AWS

Frameworks: Nextjs, ReactJs, NextJs, NodeJs, Flask

Databases: Vector, SQL, No-SQL

ACHIEVEMENTS

Global Hackathon Winner - Postman Go with the Flow Hackathon

Shark Tank IIIT Dharwad Winner - Pitched DevForces

POSITIONS OF RESPONSIBILITY

President: Velocity - Development Club

Managed the teams, campus projects, and events.

Postman Student Leader:

Promoted API Literacy on my campus and hosted fun events like API Treasure Hunt

Buildspace Campus Rep:

The campus representative for Buildspace's Nights and Weekends