

Vivek Patil

Pune, Maharashtra, India

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Skills and Abilities

- Programming Languages: C, C++, Java, Python, JavaScript, TypeScript, PHP
- Frameworks and Libraries: Tailwind, React.js, Shadcn UI, Next.js, Express.js, Electron.js, Node.js, Flask, Django, Socket.io
- Tools: Vercel, GitHub, Postman, Mongoose, Prisma
- Databases: MongoDB, MySQL, PostgreSQL
- Cloud: AWS DynamoDB, AWS S3, AWS EC2
- Others: Data Structures and Algorithms (450+ Leetcode)

Experience

Pi Reality | Software Developer Intern | Website

Jun 2025 - Present

- Sole web developer for the entire Veltos.ai platform (Next.js, Node/Express), owning the architecture, UI, backend services, DB design, caching, storage, auth, and deployment on Vercel.
- Engineered **game versioning, publishing, downloading** and a full **community system** with secure in-browser game rendering via **IFrames**, backed by optimized **DynamoDB** tables (with **Keys, Global Secondary Indexes**)
- Established a structured **AWS S3 asset pipeline** for storing and retrieving game files using deterministic key patterns, removing the need for stored URLs and enabling efficient access.
- Developed a **subscription + credit-based payment system** with a separate **payment microservice (Node/Express)**, secure checkout, **webhooks**, and automatic subscription/credit lifecycle management.
- Implemented **Clerk authentication**, security middlewares, **Redis caching** for high-speed community data, and performance optimizations (SSR/CSR tuning, lazy loading, caching layers) for a fast, scalable platform.

Sumago Infotech Pvt. Ltd. | Python Django Trainee

Jun 2023 - Aug 2023

- Built a video calling application using **Django** which supports 50+ participants at one Meet, while learning full-stack development.
- Gained experience in REST APIs, models and frontend-backend integration.

Education

RMD Sinhgad School of Engineering, Pune

Aug 2024 - May 2027

B.E in Computer Engineering

CGPA: 9.23

KCE's College of Engineering, Jalgaon

Jun 2021 - May 2024

Diploma in Computer Engineering

Percentage: 89.88%

Projects

Active File CoPilot | Electron.js, Flask, Gemini API | Link

- Built a **free GitHub Copilot alternative** for AI-powered code completions, debugging, and coding assistance.
- Made with **Electron.js** for cross-platform apps, **Flask** for backend, and **Gemini API** for AI integration.
- Features include **coding suggestions**, error detection, and a **real-time chat interface**.

Personal Virtual Assistant for PC | Electron.js, Flask, Gemini API | Link

- Created an AI assistant with song playback, news, and weather, along with code error resolution.
- Designed a cross-platform desktop app with **Electron.js and Flask**.
- Added Google's Gemini API for live Q&A, news, weather, and music integration.

Video Calling Web App | Python Django, JavaScript, ZEGOCLOUD API | Link

- Created a **real-time video calling** web application using **Django**.
- **Unique and secure generation of meeting names for user sessions**.

Achievements

- **Solved 500+ LeetCode DSA problems.**
- Won Best Project Presentation at KCE state-level competition (2024).
- Awarded Best Trainee at Sumago Infotech (2023).