

VITTHAL DESAI

Python Full Stack Developer | Python | Flask | React.js | REST APIs | SQL & NoSQL | TypeScript
+91-8956738224 | viidesaii17@gmail.com | [Portfolio](#) | Pune, Maharashtra, India

PROFESSIONAL SUMMARY

Python Full Stack Developer with **2+ years of professional experience** in designing, developing, and deploying scalable, responsive end-to-end web applications. Expertise in backend development using **Python, Flask, RESTful API design, ORM, and database integration (MongoDB, SQLite, MySQL)**, alongside modern frontend engineering using **React.js, TypeScript, JavaScript (ES6+), and Redux Toolkit**. Proficient in **full-stack architecture, JWT authentication, API integration, clean code principles, Git/GitHub, and CI/CD workflows**. Additional practical experience in integrating **AI services, LLMs, and prompt engineering** into web applications to deliver intelligent user experiences.

TECHNICAL SKILLS

- **Backend Development:** Python, Flask, RESTful APIs, Server-Side Logic, Microservices Concepts, JWT Authentication, Database Integration
- **Frontend Development:** React.js, TypeScript, JavaScript (ES6+), HTML5, CSS3, Bootstrap, Tailwind CSS, Responsive Web Design
- **State Management & Routing:** React Hooks, Context API, Redux, Redux Toolkit, React Router, Component-Based Architecture
- **Databases & Storage:** MongoDB, SQLite, MySQL, Database Schema Design, Query Optimization, ORM/ODM
- **API Integration & Tools:** Axios, Fetch API, JSON, Postman, Swagger/OpenAPI, Git, GitHub, Vite, npm, Chrome DevTools, Figma
- **AI & Emerging Technologies:** Generative AI (GenAI), Large Language Models (LLMs), Prompt Engineering, OpenAI APIs, AI Integration
- **Practices & Testing:** Clean Code, Agile/Scrum, SDLC, Jest, React Testing Library, Debugging, CI/CD Fundamentals

PROFESSIONAL EXPERIENCE

PYTHON FULL STACK DEVELOPER

Technorebel Solutions Pvt. Ltd.

June 2024 – Present

- Developed and maintained scalable full-stack web applications using **Python, Flask, React.js, and TypeScript**, delivering responsive and dynamic user interfaces.
- Designed and implemented secure **RESTful APIs** with Python and Flask, including **JWT authentication, data validation, error handling, and CORS**.
- Built reusable and modular **React.js components** and implemented application state management using **Redux Toolkit and Context API**.
- Integrated **MongoDB and SQLite** with backend APIs using ORM frameworks, focusing on efficient data modeling, indexing, and reliable API responses.
- Collaborated with **UI/UX designers, backend engineers, and QA teams** in an Agile/Scrum environment, using **Git/GitHub and code reviews** to deliver clean and maintainable solutions.

PROJECTS

FACE RECOGNITION ATTENDANCE SYSTEM

Description: Developed a full-stack web application to automate student or employee attendance using facial recognition technology. The system enables facial data registration, image capture, automated attendance marking, and attendance history management through a responsive dashboard. Integrated a **React.js frontend** with **Python Flask REST APIs** for facial recognition processing and attendance management, using **MongoDB** for persistent data storage.

Role & Responsibilities

- Developed responsive and interactive user interfaces using **React.js, JavaScript, HTML5, CSS3, and Bootstrap**.
- Built reusable components for user registration, face capture, attendance marking, attendance history, and dashboard modules.
- Developed and integrated **RESTful APIs** using **Python and Flask** for user registration, facial recognition, and attendance management.
- Implemented **facial recognition processing** using **OpenCV** and **face_recognition** to capture and identify registered users for automated attendance marking.
- Integrated frontend modules with backend APIs using **Axios**, implementing form validation, loading states, error handling, and user notifications.
- Integrated **MongoDB** for storing and managing user profiles, facial data, and attendance records.
- Designed responsive dashboards compatible with **desktop, tablet, and mobile devices**.

CODEPILOT AI – [Watch Live](#)

Description: Developed a full-stack AI-powered code review platform that analyzes source code for bugs, security vulnerabilities, performance issues, code-quality problems, and improvement opportunities. Built a responsive **React frontend** with a **Python FastAPI** backend, MongoDB database, JWT authentication, and Groq AI integration. Deployed the application using Vercel, Render, and MongoDB Atlas.

Role & Responsibilities

- Developed a responsive and interactive frontend using **React, Vite, Tailwind CSS, React Router, and JavaScript**.
- Built **RESTful APIs using Python and FastAPI** for user authentication, code reviews, AI analysis, review history, dashboard, and profile management.
- Integrated **Groq API** to perform AI-powered source-code analysis for bugs, security vulnerabilities, performance issues, code smells, and code-quality improvements.
- Implemented **JWT-based authentication** with password hashing using **Passlib and bcrypt**, along with protected backend routes.
- Designed and integrated **MongoDB Atlas with PyMongo** for storing user accounts, code reviews, analysis results, and review history.
- Developed a centralized **dashboard and review history system** allowing users to track previous code analyses, quality scores, security issues, and review activity.
- Implemented an **AI chat feature** enabling users to interact with the AI and ask questions about analyzed source code.
- Integrated frontend and backend components through **HTTP/REST APIs**, handling authentication, data flow, validation, and application workflows.
- Deployed the application using **Vercel for the frontend, Render for the backend, MongoDB Atlas for the database, and GitHub for version control**.

PERSONAL PORTFOLIO | [Vitthal Desai Portfolio](#)

Description: The **Personal Portfolio Website** is a responsive single-page web application developed to showcase projects, technical skills, certifications, education, and professional information. The application uses **HTML5, CSS3, and JavaScript (ES6+)** to implement interactive navigation, responsive layouts, dynamic UI behavior, theme customization, project showcases, and client-side form validation. The project demonstrates practical experience in frontend development, responsive design, DOM manipulation, and interactive web application development.

Role & Responsibilities

- Developed a responsive single-page web application using **HTML5, CSS3, and JavaScript (ES6+)** with support for desktop, tablet, and mobile devices.
- Implemented interactive navigation, smooth scrolling, active-section tracking, and responsive mobile navigation using the **DOM API** and **Intersection Observer API**.
- Developed dynamic UI features including **theme customization, color selection, animations, and interactive project sections**.
- Implemented client-side **form validation and feedback handling** with device-specific email integration.
- Optimized the user interface for **cross-device compatibility, usability, and responsive performance**.
- Deployed and maintained the application using **Git, GitHub, and Render**.

EDUCATION

Bachelor of Computer Applications (BCA)

Karnataka University, Dharwad

PUC (Commerce)

Department of Pre-University Education, Bengaluru

SSLC

KSEEB, Bengaluru

DECLARATION

I hereby confirm that the information in this document is accurate and true to the best of my knowledge.

Location: Pune

Date: _____

Vitthal Desai