

PRAKASH SWAMI

Full-Stack Developer

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Professional Summary

Full-Stack Developer and Computer Engineering student skilled in building scalable web applications with React.js, Next.js, Node.js, Express.js, and PostgreSQL. Experienced in designing REST APIs, integrating authentication, and shipping AI/LLM-powered features using LangChain and RAG. Strong foundation in data structures, algorithms, and OOP, with 400+ problems solved on LeetCode.

Education

B.Tech, Computer Engineering, VIT Pune — CGPA: 8.84/10 2024 – 2028

Relevant Coursework: Data Structures & Algorithms, DBMS, Operating Systems, OOP, Agile Framework
HSC (12th Grade) — 82.34% 2024

Skills

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

Frontend: React.js, Next.js, React Native, HTML5, CSS3, Responsive UI

Backend & Databases: Node.js, Express.js, REST APIs, PostgreSQL, Supabase, Firebase, Redis

AI/LLM: LangChain, LangGraph, OpenAI API, Gemini API, RAG, ChromaDB, Prompt Engineering

Data Science: NumPy, Pandas, Matplotlib, Supervised Learning

Developer Tools: Git, GitHub, Postman, Clerk, Visual Studio Code, Agile/Scrum

Experience

Web Developer Intern — Career Craftly

May 2026 – Present

Project: The GP Edge 🔗

Next.js, TypeScript, PostgreSQL, Clerk, Gemini API, REST APIs

- Built a full-stack SaaS platform for General Practitioners using Next.js, TypeScript, and PostgreSQL, delivering a personalized dashboard with real-time study analytics.
- Implemented secure authentication and role-based access with Clerk, and developed REST APIs for the study, billing, and assessment modules.
- Engineered an AI-powered Medicare (MBS) billing module with semantic search and LLM-based XML processing to automate code lookup, plus an exam-prep system with quizzes, mock tests, mastery scoring, and automated PDF performance reports.

Projects

PaperTrail — RAG Knowledge Retrieval System 🔗

React, Python, Supabase, ChromaDB, OpenAI API

Built a full-stack Retrieval-Augmented Generation (RAG) platform supporting PDF, Word, Excel, and CSV documents. Implemented secure authentication, document ingestion, semantic indexing, and duplicate detection, delivering citation-backed, low-hallucination responses for accurate knowledge retrieval.

GharBudget — Household Expense Manager 🔗

React Native, TypeScript, Firebase

Developed a cross-platform mobile app for household expense management with secure authentication, real-time cloud synchronization, budgeting, expense categorization, and interactive spending analytics with visual charts.

Certifications

- Complete Full Stack Web Development Bootcamp — The App Brewery 🔗
- The Ultimate Job Ready Data Science Course — CodeWithHarry
- AI Agents: Automation & Business with LangChain & LLM Apps — Arnold Oberleiter 🔗

Achievements

- Solved 400+ Data Structures & Algorithms problems on LeetCode.
- Finalist in CanHack International and 4 national-level hackathons.
- Led development of the official ICON club website, coordinating the web team and event updates.