

RAHUL SANJAY PANCHAL

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SUMMARY

Innovative **Software Developer** with hands-on experience **building products from 0 to 1** and **scaling from 1 to 100**. Skilled in **Python, Flask, Django, FastAPI, React, JavaScript, TypeScript, and SQL**. Strong background in **full-stack development, scalable systems, and real-time features**. Successfully integrated **AI tools** into products for **intelligent recommendations and automation**. I thrive on solving **tough problems** and can quickly **adapt** even without prior experience, **I get things done**.

SELECTED IMPACT HIGHLIGHTS

- Shipped **JobNest** in **7 days** which handles **300+ jobs** via **real-time API + scraping (hosted on GCP)**
- Reduced internship mismatch by **25%** via a **smart recommendation system** tailored with user data. (**InternOptima**)
- Delivered **full campaign strategy with recommendation** in **4 days** via **AI** in **<12s** using **Perplexity & Gemini APIs** (**Vega Digital**)

WORK EXPERIENCE

AI Product Developer (Agentic AI), Vega Digital (venture studio arm of **QI3P**), (TEXAS, USA)

Aug '25 - Present

- Constructed and launched an **AI-powered campaign planner** in **4 days** using **Perplexity API** to recommend the best ad platforms (e.g. **Instagram, Google**) based on user business data; integrated **trendjacking** and keyword validation using **DataForSEO**. Delivered full recommendations in under **10 seconds**.
- Enabled users to discover **trending keywords, competitor insights, and hyper-local events** to boost visibility and optimize campaign timing. Insights surfaced in **under 5 seconds**.
- Currently developing a **content generation engine** that suggests **high-converting platform-specific text content, hashtags, rationale and video ads script** tailored to user goals and audience — **targeting end-to-end output under 10 seconds**..
- Leading the build of an **AI ad creative pipeline** using **RunwayML & Stability AI** to **auto-generate image and video ads** with **voiceovers, editable** by users for final customization and **one-click deployment** to user selected **platform** — **targeting generation under 15 seconds**

Software Developer Intern, InternOptima, (TEXAS, USA)

Aug '24 - Dec '24

- Led the development of an **Automatic Playlist Creation System** that generated personalized playlists based on **user location, job role, and graduation date**.
- Collaborated **Frontend using React** and **Backend using Java Spring Boot**, optimizing API performance and CRUD operations for seamless **client-server communication**.
- Crafted a **scalable database architecture** that improved query speed by **40%**, ensured **99.9% uptime** for **10,000+ users**, and fueled a **real-time recommendation system** in **Python** that increased internship match accuracy by **25%** within **2 months**.

Web Developer Intern, Let's Grow More, (MUMBAI, INDIA)

Oct '21 - Nov '21

- Optimized frontend performance for **Zippy**, cutting page load times by **25%** and delivering a **smoother, more responsive user experience**.
- Refactored backend infrastructure, improving server efficiency by **30%** through **advanced memory and data pipeline optimizations**.
- Engineered and maintained **production-ready REST APIs** handling **5,000+ daily requests** with **99.0% uptime**, ensuring **reliable, real-time system communication** within a month

Full Stack Developer Intern, The Spark Foundation, (MUMBAI, INDIA)

Sept '21 - Oct '21

- Implemented a **real-time payment system** using the **Razorpay API**, processing **5,000+ transactions** with **100% success rate** in a month.
- Developed a **responsive front-end** with **React, HTML, and Tailwind CSS**, improving the **user experience by 35%**.
- Built a **microservice backend** using **Python and Flask**, handling **10,000+ transactions** with **99.9% uptime**.

TECHNICAL SKILLS

Object-Oriented Programming and Database Structures

Language: Python, Java, JavaScript, TypeScript, C++, SQL

Database: MySQL, FIREBASE, MONGODB, SQL, POSTGRES

AI/LLM: OpenAI API, Perplexity, Claude, Gemini, RunwayML, Stability AI

Operating System: WINDOW, LINUX/UNIX, MAC OS

Tools: Git, Netlify, Postman, Figma

Cloud Platforms: AWS, GCP, AZURE

Framework: Flask, FastAPI, Spring Boot, React, Tailwind CSS

Big Data Technologies: APACHE KAFKA, HADOOP, APACHE SPARK

DevOps Tools: Docker, Kubernetes

PROJECTS

JOBNEST: FULL-STACK JOB PORTAL ([demo](#) | [video](#)): PYTHON, FLASK, REACT, TAILWIND CSS, DOCKER, GOOGLE CLOUD

- Aggregated **300+ live job listings** using **Muse API & web scraping (<10s response time)**
- Enabled **full-text search, filters, and responsive UI** using **React, Flask, Tailwind CSS**
- Deployed scalable backend with **Docker & Google Cloud (auto-scaling, load-balanced)**

AURA: ARTIFICIAL UNDERSTANDING & RESPONSE ASSISTANT ([demo](#) | [video](#)): REACT, TAILWIND CSS, JAVASCRIPT, NETLIFY

- Built **LLM-integrated chatbot** in **2 days** using **Gemini 1.5 model supported markdown + 100+ chat sessions**
- Designed responsive, accessible UI with **chat history** using **React + Netlify**
- Achieved **sub-10s intelligent response time** across varied prompts

STOCKWIZ: STOCK ANALYSIS APP ([video](#)): KOTLINE, FIREBASE, PYTHON, SCIKIT-LEARN, FIGMA.

- Superheaded a stock analysis app using **Tingo and Polygon APIs** with **1.5s query speed**.
- Achieved **85% accuracy** in **predictive modeling** and **3s/article sentiment analysis**.

EDUCATION

Master of Science in Computer Science

Aug '23 - May '25

University of Texas, Arlington

GPA: 3.73/4.0

Course Work: Data Structure and Algorithm, Web Data Management, Advance Software Development, Cloud Computing and Big Data

Bachelor in Information Technology

Aug '20 - May '23

University of Mumbai, India (Shah and Anchor Kutchhi Engineering College)

GPA: 8.96/10