RAHUL SANJAY PANCHAL

rahulsp4601@gmail.com | +1 (682) 597-8114 | LinkedIn | Portfolio | Github

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 deployed **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

- Architected and delivered **DentalScan V1 in 75 days**, enabling **real customer sales and investor-ready demos** from **day one (ReplyQuick AI)**
- Delivered **full campaign strategy with recommendation** in **4 days** via **AI in <12s** using **Perplexity & Gemini APIs (Vega Digital)**

WORK EXPERIENCE

Software Engineer Intern, ReplyQuick AI — *Florida, USA*   *Sept '25 - Present*

- **Solely built DentalScan from 0→1**, designing the full backend, frontend, database, legal flows, patient/dentist workflows, and deployment pipeline delivering a production-ready **V1 used instantly for real sales and onboarding**.
- **Architected the entire product roadmap for V1 → V2 → V3**, creating scalable data models, region-based logic, component-driven UI, and secure multi-tenant structures to ensure future features ship without rewrites.
- **Developed the complete Demo Flow** (no-login dentist experience) with patient capture links, dashboards, storage, and reporting dramatically improving investor demos and sales conversion.
- **Implemented global readiness** with multi-country pricing, currency handling, legal agreements (HIPAA/GDPR/LATAM), and audit-safe workflows, enabling immediate expansion into new markets.
- **Delivered founder-ready V1 independently**, allowing the company to launch the product, onboard clinics, and begin revenue generation with a stable, scalable foundation.

AI Product Developer (Agentic AI), *Vega Digital* (venture studio arm of QI3P), (Connecticut, USA)   *Aug '25 - Dec'25*

- Engineered 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, incorporated **trendjacking** and keyword validation using **DataForSEO**. Delivered full recommendations in under **10 seconds**.
- Enabled users to discover t**rending keywords, competitor insights, and upcoming local events** to boost visibility and optimize campaign timing. Insights surfaced in **under 5 seconds**.
- Formulated 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**..
- Led the build of an **AI ad creative pipeline** on **Docker** 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** via **Zapier Web Hook targeting generation** under **15 seconds**

Software Developer Intern, *InternOptima*, (TEXAS, USA)   *Aug '24 - Dec'24*

- **Supervised** 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 and backend**, reducing **page load times by 25%** and improving **server efficiency by 30%**.
- **Structured** and **maintained REST APIs** handling **5,000+ daily requests** with **99% uptime**.

Full Stack Developer Intern, *The Spark Foundation*, (MUMBAI, INDIA)   *Sept '21 - Oct '21*

- Implemented a **real-time payment system** with **Razorpay API**, processing **5,000+ transactions** with **100% success rate**.
- Developed a **responsive React/Tailwind frontend** (**+35% UX**) and a **Flask microservice backend** handling **10,000+ transactions** at **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, Vercel, Postman, Figma
Cloud Platforms: AWS, GCP, AZURE	**Framework:** Flask, FastAPI, Spring Boot, React, Tailwind CSS

PROJECTS

SMART SYLLABUS → CALENDAR INTEGRATION (demo): NODE.JS, NEXT.JS, POSTGRESQL, OPENAI/GEMINI, GOOGLE CALENDAR API, VERCEL

- **Built** a full-stack platform that converts **syllabi into calendar tasks** using **LLMs (OpenAI/Gemini)**, auto-extracting deadlines, exams, and readings to reduce **manual scheduling time by 70%**.
- **Integrated Google Calendar sync, .ics export, and AI Interpret Mode**, enabling **500+ syllabus uploads** with **99.9% uptime** during testing.

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*
Bachelor in Information Technology	*Aug '20 - May '23*
University of Mumbai, India (Shah and Anchor Kutchhi Engineering College)	*GPA: 8.96/10*