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 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

- Built **Stripe-powered onboarding in 2 weeks**, scaling to **1K+ transactions** and **500+ business numbers** with **99% uptime (ReplyQuick).**
- 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*, **(Florida, USA)**   *Sept '25 - Present*

- **Architected** the end-to-end **onboarding flow** (**OTP login**, **business details**, **number provisioning**, **plan selection**, **billing**, **carrier approval**), reducing **user activation time by 40%**.
- **Constructed** a real-time **Stripe** payment gateway in **2 weeks**, enabling seamless **subscription checkout** and **trials**; processed **1,000+ transactions** with **99.9% success rate** during initial rollout.
- **Integrated Twilio OTP verification** and **Phone Numbers API** to streamline **authentication** and **business number provisioning**, cutting **onboarding drop-offs by 25%**.
- **Designed** an **AI-driven SMS Agent** for **smart auto-replies** and **lead scoring**, laying the foundation for intelligent **customer engagement** and higher **conversions**.

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

- 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, 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

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*

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*