RAHUL SETH

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SUMMARY

Full Stack Software Engineer with 3+ years of experience across energy, oil & gas, and legal industries. I build everything from embedded systems to AI-powered web applications using Python/FastAPI, React, TypeScript, and C/C++. I love improving processes through technology - most recently working with our CTO to automate our QA systems using AI, which is projected to save the company 1,500+ hours annually. I'm the type of person who sees a problem, comes up with a solution, and follows through to make it happen. Quick to pick up new technologies and always looking for ways to make things work better.

WORK EXPERIENCE

Baker Hughes   **India**
GenAI Leader   *Mar'25 – Present*
- Leading organization-wide AI transformation by designing, developing and deploying custom AI apps that integrate into existing processes
- Identified 6 key roadblocks and built AI roadmap through Q4 2026, presented to and approved by entire C-Suite
- Built automated test case system using Mistral 7B/llama.cpp with Agno, creating collaboration ecosystem for authors, QA & engineers
- Developed full-stack solution with Python/FastAPI/PostgreSQL backend, TypeScript/React frontend, deployed via Docker on Azure
- Projected to save 1,500+ hours annually and over $100K by freeing up senior engineering resources

Software & Product Engineer   *Sep'23 – Present*
- Retained through strategic Ireland-to-India relocation; expanded leadership and consulting responsibilities across 5 products
- Developed Python-based simulation services and data analytics pipeline for smart analyzers, reducing testing cycles by 60%
- Drove product design across 7 products, implemented user-centric design processes that improved user engagement by 30%
- Lead for 2 products (team of 4 developers); managed releases, security reviews, TouchGFX UI/UX, and C++ backend development
- Introduced CI/CD automation for builds, releases, and PR workflows; saving 1-2 hours per PR across 300-400 PRs/project

Baker Hughes   **Ireland**
Software Engineer   *Aug'22 – Aug'23*
- Joined as a Graduate Software Engineer and was rapidly promoted to SWE within 5 months
- Experience with regulatory compliance (SIL 2 certification) and quality assurance processes applicable to pharmaceutical environments
- Built Python simulator for 20 proprietary algorithms, reduced testing by 60% and caught critical error pre-hardware testing, saving costs

Global Strategic Law Council   **India**
AI Product Leader - Pro Bono   *Jan'25 – Present*
- Cornell/Parsons-backed NGO providing pro bono legal aid to communities affected by climate mobility issues
- Led product discovery with 6 lawyers, defined user personas, created PRD for AI-powered case review app with iterative feedback loops
- Developed document summarization system using Gemini/OpenAI SDKs, reduced lawyer review time from 8-10 hours to minutes
- Architected full-stack legal platform using React/JavaScript, Python/FastAPI/Docker, and PostgreSQL with feedback collection

EDUCATION

Trinity College, Dublin   **Ireland**
BAI Computers Engineering
- **Activities:** VP Indian Society, Lead Formula Trinity, Voluntary Tuition Program, Sustainability project top 5 in class

SKILLS

ML & AI: OpenAI/Gemini SDKs, Agno, LangChain/Graph, Llama CPP, Spacy, HuggingFace, XGBoost, SVM, Scikit-learn, Embedders
Programming: Python (PyTorch, Pandas, Numpy), Shell/Batch/Make, C/C++, SQL, PostgreSQL, Git, Static Analysis
Frameworks/Infra: Docker, Azure, GCP, Linux/Unix, React, Sentry, Figma, FastAPI, Parasoft, Git Actions

KEY PROJECTS

AI Test Case Validator - QA Automation Platform — **India**

Project Leader — *Mar'25 – Present*

- Led business and technical aspects; convinced CTO through business case and secured 2 engineers to automate 600+ test cases
- Built E2E QA platform; used Mistral 7B for POC, scaled to production with Azure OpenAI, Docker, and VMs with database integration
- Architected unified platform for test uploads, AI analysis, approvals, and feedback - created *GitHub for functional testing*
- Implemented statistical metrics & agentic RAG architecture with FAISS vector database for pattern recognition across 29 evaluation criteria
- Delivered application projected to save 1,500+ engineering hours annually; reduced document validation time from 6-8 hours to minutes

HygroPro XP - Smart Moisture Analyzer — **India**

Technical Lead — *Jan'24 – Oct'24*

- Took over mid-project after lead's departure, launched 2 major releases; $500K generated within 6 months
- Led a team of 3 developers, delivering 10 high-priority features and resolving 20+ bugs for the second release
- Developed Python-based data processing service for sensor analytics; reduced testing time by 1 month & improved accuracy by 15%
- Improved code modularity & application reliability by refactoring a monolithic 6000-line file; reduced its size by 33%

XMTCpro - Smart Gas Analyzer — **Ireland, India**

Consulting Engineer — *Aug'22 – Sep'24*

- Designed & developed the complete UI/UX, encompassing 17 menu types & 12 core features; generated $400K+ revenue in 2 months
- Partnered with product and technology teams to develop features & workflows focused on minimizing user errors
- Resolved 70+ bugs, including 40 critical issues within a focused 2-month period, significantly improving software stability
- Led SAST & OSAT reviews for 7+ software releases, ensuring compliance and owning frontend design reviews
- Oversaw static analysis (MISRA C compliance) & collaborated with an external agency to achieve SIL 2 certification