RAHUL SETH

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SUMMARY

Software engineer with $2M+ in product revenue and a track record of building intelligent systems that scale. At Baker Hughes, I've led data automation projects saving 1,500+ hours annually, architected AI workflows, and shipped backend infrastructure across embedded and cloud platforms. Now expanding into data engineering to build the systems behind smarter, faster decision-making.

WORK EXPERIENCE

Baker Hughes   **India**

Software Engineer   *Sep'23 – Present*

- Retained through strategic Ireland-to-India relocation with expanded leadership and consulting responsibilities across 5 products
- Led technical product management and UI/UX across 5 products; served as project lead on 1 with 3 successful market releases
- Introduced CI/CD automation for builds, releases, and PR workflows; saving 30-40 minutes per PR across 300-400 PRs per project
- Authored 5+ design records and led adoption workshops, standardizing algorithms and policies across product teams company-wide
- Designed Python data pipeline to convert SVG exports into structured JSON for graphics rendering in embedded products

AI Initiative Leader   *Mar'25 – Present*

- Identified 6 bottlenecks for AI integration, developed comprehensive business case and secured CTO approval for multi-project initiative
- Spearheaded company-wide AI transformation, leading assigned team of 2 engineers across 5+ active product lines
- Aligned QA and SME teams to curate labeled test cases for RAG pipelines using vector DBs and pre-trained LLMs in QA automation
- Delivered first AI deployment projecting 1,500+ engineering hours saved annually, establishing proof-of-concept for broader adoption

Baker Hughes   **Ireland**

Software Engineer   *Aug'22 – Aug'23*

- Joined as a Graduate Software Engineer and was rapidly promoted to SWE 1 within 5 months
- Introduced Figma-based design reviews with product managers, improving design quality by 85% and reducing iteration time by 60%
- Developed Windows UI/UX simulator with 10+ key features, used to train 30+ product specialists; reduced time-to-market by 3 months
- 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 AI case summarizer processing 200-600 page legal documents, reducing lawyer review time from 8-10 hours/case to minutes
- Architected full-stack system on Digital Ocean using PostgreSQL and Supabase buckets for real-time LLM feedback and data flows
- Collaborated with lawyers to define product requirements and optimize user workflows for case analysis capabilities

EDUCATION

Trinity College, Dublin   **Ireland**

BAI Computers and Electronics Engineering   *2018 – 2022*

- **Dissertation:** Survey & analysis of cryptographic keys on port 25 using Python to identify weak keys and improve security
- **Activities:** VP Indian Society, Lead Formula Trinity, Voluntary Tuition Program, Sustainability project top 5 in class

SKILLS

Programming: Python, C/C++, SQL (PostgreSQL), Shell/Batch/Make, Git; ETL, REST APIs, Data Modeling
Technologies: Azure, Digital Ocean, Supabase, Docker, Linux, Figma, Agno, LangChain, RAG, LLMs, React

KEY PROJECTS

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

Technical Lead   *Mar'25 – Present*

- Developed business case and secured CTO approval to lead cross-functional team automating 600+ test cases across 5+ product lines
- Designed embedding-based classification system with RAG pipeline and human-in-the-loop feedback for continuous model improvement

- Built multi-LLM system to automate 29-step test case validation; eliminated manual QA review across all product lines
- Architected data ingestion and feedback capture system using PostgreSQL; containerized services with Docker and deployed to Azure
- Developed version-controlled validation platform to replace ad-hoc review; projected to save 1,500+ engineering hours annually

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