

# RAHUL SETH

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## SUMMARY

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Software engineer with proven track record of translating complex technical challenges into scalable solutions for internal and external stakeholders. Successfully pitched and secured CTO approval for AI automation initiative, leading cross-functional teams to deliver solutions that eliminate 1,500+ hours of manual work annually.

## WORK EXPERIENCE

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### Baker Hughes

Software Engineer

India

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
- Ran scrums for 4 product teams managing Rally workflows, transitioning 1 project to sustaining while advancing 2 in development
- Resolved workflow inefficiencies for teams through CI/CD automation, saving 30-40 minutes per PR across 300-400 PRs/project
- Authored 5+ design records and led adoption workshops, standardizing algorithms and policies across product teams company-wide

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, built multi-year product roadmap and leading 2 engineers across 5+ active product lines
- Drove stakeholder alignment across SME, QA, and developer teams through requirements gathering and change management workshops
- Conducted weekly CTO consultations defining AI roadmap and translating business requirements into technical solutions

### Baker Hughes

Software Engineer

Ireland

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

AI Product Leader - Pro Bono

India

Jan'25 – Present

- Cornell/Parsons-backed NGO providing pro bono legal aid to communities affected by climate mobility issues
- Collaborated with 6 lawyers to define product requirements and optimize user workflows for case analysis capabilities
- Developed document summarization system using Google Gemini SDKs, reduced lawyer review time from 8-10 hours to minutes
- Architected full-stack solution with feedback collection system, enabling iterative AI improvements through user-driven optimization

## EDUCATION

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### Trinity College, Dublin

BAI Computers and Electronics Engineering

Ireland

2018–2022

- **Dissertation:** Statistical analysis of cryptographic data using Python to detect anomalous patterns and assess vulnerability risks
- **Activities:** VP Indian Society, Lead Formula Trinity, Voluntary Tuition Program, Sustainability project top 5 in class

## SKILLS

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**Programming:** Python, C/C++, XML, SQL, Git, Shell/Batch/Make, JavaScript, TeX, Static Analysis

**Technologies:** Figma, LangChain, RAG, LLMs, Docker, HuggingFace, PostgreSQL, Linux, React, Azure, GCP, Digital Ocean

KEY PROJECTS

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AI Test Case Validator - QA Automation Platform

India  
Mar'25 – Present

Technical Lead

- Developed business case and secured CTO approval to lead cross-functional team automating 600+ test cases across 5+ product lines
- Architected end-to-end AI system replacing manual QA workflows, reducing document validation time from 6-8 hours to minutes
- Built AI anomaly detection system using Gemini identifying irregular patterns across 29-criteria; eliminated manual review entirely
- Implemented agentic RAG architecture with FAISS vector database and embeddings for intelligent test case classification
- Creating intelligent version control platform eliminating email/Teams workflows, projected to save 1,500+ engineering hours annually

HygroPro XP - Smart Moisture Analyzer

India  
Jan'24 – Oct'24

Technical Lead

- 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  
Aug'22 – Sep'24

Consulting Engineer

- 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