

# RAHUL SETH

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## SUMMARY

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Software engineer building AI-powered automation tools and anomaly detection systems. Developed solutions that eliminate 1,500+ hours of manual work while identifying irregular patterns and improving workflows. Known for translating complex technical problems into scalable solutions and collaborating across teams to optimize processes and reduce operational risk.

## 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
- 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
- Built Python graphics engine converting Figma SVG mockups to graphics code, enabling rapid prototyping across development teams

*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
- Delivered first AI deployment projecting 1,500+ engineering hours saved annually, established POC for broader adoption

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

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

KEY PROJECTS

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**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
- 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**

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