

# RAHUL SETH

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## SUMMARY

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Software Engineer with 4+ shipped products in C/C++ and Python, specializing in complete product lifecycle development and test automation. Expert at developing, testing, automating, and implementing software for cutting-edge technology. Led AI initiatives at Baker Hughes automating 600+ test cases and saving 1,500+ engineering hours annually. Strong background in embedded systems, algorithm development, and scalable solutions from chip-level workflows to cloud infrastructure.

## 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
- Developed C/C++ firmware for smart analyzers including UI/UX for displays and digital comms using STM32 microcontrollers
- Led 1 of 2 key projects and served as critical contributor on the other, generated combined revenue of \$2M+ within 6 months of release
- Authored 5+ design records standardized company-wide; received Kaizen award for password policy design saving 1 month per project
- Introduced CI/CD automation for builds, releases, and PR workflows; saving 30-40 minutes per PR across 300-400 PRs per project

*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
- 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, establishing proof-of-concept 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
- Led AI case summarizer processing 200-600 page legal documents, reducing lawyer review time from 8-10 hours/case to minutes
- Built React frontend with Python (FastAPI) backend and PostgreSQL database for feedback collection and iterative LLM improvements

## EDUCATION

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### Trinity College, Dublin

*BAI Computers and Electronics Engineering*

**Ireland**

*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, Top 5 group project (advanced to EU competition)

## SKILLS

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

**Technologies:** IAR, STM32, RAG, LLMs, Docker, PostgreSQL, Linux, React, Figma, Git Workflows

**Frameworks/Infra:** FastAPI, Agno, LangChain, Supabase, Digital Ocean, GCP

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
- Building end-to-end AI system replacing manual QA workflows, reducing document validation time from 6-8 hours to minutes
- Built RAG knowledge system with embeddings for test case classification and active learning pipeline with human-in-the-loop feedback
- Built multi-LLM system with Llama/GROQ automating 29-criteria validation/test case; eliminated manual QA review entirely
- 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