

RAHUL SETH

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SUMMARY

I'm Rahul - an engineer who loves building meaningful relationships and working across different teams and cultures. From Ireland to India, working with commercial teams to leadership, I've learned that great engineering starts with understanding people and their challenges. I'm passionate about customer-first products and making teams more efficient through AI systems and tools that help teams ship faster. I thrive working across disciplines: UI/UX design, backend development, algorithms, business strategy, and company-wide process improvements.

WORK EXPERIENCE

Baker Hughes

AI Initiative Leader

India

Jan'25 – Present

- Developed business case for AI-driven QA automation, secured CTO approval to lead cross-functional initiative across 5+ active projects
- Leading development of end-to-end AI test validator automating 600+ test cases, projected to save 1,500+ engineering hours annually
- Building intelligent version control platform replacing email/Teams workflows with centralized collaboration for functional testing
- Developing Python-based system reducing testing cycle time for 20-30 page documents while improving cross-team collaboration

Software Engineer

Sep'23 – Present

- Retained through strategic Ireland-to-India relocation with expanded project leadership & consulting responsibilities across 4 product lines
- Led product release & managed technical delivery across 4 projects in 2 years; contributed to PDRs, SRSs, & implementation
- Standardized 10+ hygrometry algorithms and created reusable documentation for future product development
- Spearheading frontend design for a state-of-the-art hygrometer, leveraging TouchGFX & Figma to deliver a modern, interactive UI
- Created tasks in Micrium 3 to integrate TouchGFX with the application; gained exposure to RTOS operations
- Authored 4 design records in 1 year, spanning diverse topics including proprietary algorithms to image conversion scripts
- Led CI/CD automation with standardized PRs and multi-build verification; won Kaizen award for code quality improvements
- Designing enterprise password policy standardization affecting 30+ products with unified access levels and user profiles

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
- Part of smart analyzers projects; worked in a hybrid Agile environment & used Agile tools for feature breakdown
- Developed backend simulation services using Python, optimizing data processing and automation pipelines
- Created the product line's first icon-based GUI, optimized for small monochrome displays; reduced user errors by 30%

Global Strategic Law Council

AI Product Leader

India

Jan'25 – Present

- GSLC is an NGO empowering communities & advancing social impact; providing pro bono law aid to those affected by climate change
- Collaborated with team to build AI case summarizer that processes uploaded legal documents across 30 lawyer-specified criteria
- Developed Python backend with React frontend, deployed on Digital Ocean; reduced case review time from hours to minutes

Ericsson

AI Intern

India

Jun'21 – Aug'21

- Implemented a clustering-based query classifier to categorize internal IT requests, enabling efficient routing and resolution of issues
- Implemented NLP preprocessing, TF-IDF vectorization (Scikit-learn & NLTK), followed by k-means clustering for query classification

KEY PROJECTS

AI Test Case Validator - QA Automation Platform

India

Technical Lead

May'25 – Present

- 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
- Creating intelligent version control platform eliminating email/Teams workflows, projected to save 1,500+ engineering hours annually
- Architected Python/FastAPI backend with PostgreSQL database, integrating Llama/GROQ LLMs and RAG for document processing

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

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:** Indian Society, Formula Trinity, Voluntary Tuition Program
- Group project ranked Top 5 in class, advanced to EU competition. Developed a sustainable water solution for water-scarce countries

SKILLS

Programming: Python, C/C++, XML, SQL, Git, Shell/Batch, JavaScript, TeX, Static Analysis
Technologies: Figma, IAR, Parasoft, PostgreSQL, Linux, React, Protege, TouchGFX, Git Workflows