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 — India

AI Initiative Leader — *Jan'25 – Present*

- Developed business case for AI-driven QA automation, secured CTO approval to lead cross-functional initiative across 5+ active projects
- Led development of end-to-end AI test validator automating 600+ test cases, projected to save 1,500+ engineering hours annually
- Built intelligent version control platform replacing email/Teams workflows with centralized collaboration for functional testing
- Developed 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 leadership and consulting responsibilities across 4 product lines
- Led technical product management for 4 projects; owned complete UI/UX portfolio and production releases across product lines
- Introduced CI/CD automation for builds, releases, and PR workflows; saving 30-40 minutes per PR across 300-400 PRs per project
- Ran weekly scrums and managed Rally workflows; successfully transitioned lead project to sustaining while advancing 2 in development
- Authored 5+ design records including hygrometry algorithms now standardized across all moisture products company-wide
- Built Python graphics engine converting Figma SVG mockups to graphics code, enabling rapid prototyping across development teams
- Contributed heavily to core features including data logging and user journey optimization, focusing on customer experience improvements
- Designed enterprise password policy standardization for products, affecting 10+ devices with unified access levels and user profiles

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
- 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 — 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
- Built React frontend with Python backend and PostgreSQL database for feedback collection and iterative LLM improvements
- Collaborated with lawyers to define product requirements and optimize user workflows for case analysis capabilities

Ericsson — India

AI Intern — *Jun'21 – Aug'21*

- Built clustering-based query classifier to categorize internal IT requests, enabling efficient routing and resolution of issues
- Designed NLP preprocessing pipeline with TF-IDF vectorization (Scikit-learn & NLTK) and 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