

# RAHUL SETH

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## SUMMARY

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Full-stack engineer with AI and product expertise, having delivered \$2M+ in product revenue and currently leading AI initiatives that save 1,500+ engineering hours annually. Proven leadership experience managing teams and securing C-level buy-in for enterprise automation platforms across legal, energy, and technology sectors. Specializes in building AI solutions that integrate with existing workflows, focused on scaling intelligent automation for emerging markets.

## WORK EXPERIENCE

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### *Baker Hughes*

#### *Software Engineer*

**India**

*Sep'23 – Present*

- Retained through strategic Ireland-to-India relocation; expanded leadership and consulting responsibilities across 5 products
- UI/UX leader for 7 products, introduced Figma-based collaboration that reduced user errors by 30% and accelerated development
- Introduced CI/CD automation for builds, releases, and PR workflows; 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
- 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 roadmap
- Implemented AI code reviews using GitHub Copilot; custom instructions to enforce coding guidelines, achieving 95% compliance
- Delivered first AI deployment projecting 1,500+ engineering hours saved annually, establishing proof-of-concept for broader adoption
- Drove stakeholder alignment across SME, QA, and developer teams through requirements gathering and change management workshops

### *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
- 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 PRD for AI-powered case review system with hallucination detection and feedback mechanisms
- Developed document summarization system using Gemini/OpenAI APIs, reduced lawyer review time from 8-10 hours to minutes
- Architected full-stack legal platform using React/JavaScript, Python/FastAPI, and PostgreSQL with feedback collection

## 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, Shell/Batch/Make, C/C++, SQL, PostgreSQL, Git, JavaScript, Static Analysis

**Technologies:** OpenAI SDKs, Autogen, LangChain, RAG, LLMs, Docker, Azure, Agno, Spacy, HuggingFace, Figma, Linux/Unix React

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-powered analytics system using statistical frameworks to identify irregular patterns across 29-criteria, enabling data-driven decision making
- 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