

# RAHUL SETH

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## SUMMARY

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Engineer who builds software products for green energy and hydrogen technology, with additional pro bono work developing AI solutions for lawyers. My unique strength lies in bridging technical complexity with business value, whether developing customer-facing products or optimizing internal workflows. I take a customer-driven approach for new products while applying the same methodology to internal customers - identifying bottlenecks and architecting solutions.

At Baker Hughes, I evolved from collaborating with product managers to leading the entire UI/UX portfolio, while simultaneously leading AI initiatives that save 1,500+ engineering hours annually. At GSLC, I deliver AI solutions that lawyers actually love using. I excel at turning complex technical problems into elegant solutions through stakeholder management, technical architecture, and cross-functional collaboration.

## 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 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
- 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
- Developed core features for data logging and user journey optimization with focus on customer experience improvements
- Designed enterprise password policy standardization for products, affecting 10+ devices with unified access levels and user profiles

*AI Initiative Leader*

*Feb'25 – Present*

- Developed business case for AI-driven QA automation, secured CTO approval to lead cross-functional initiative across 5+ active projects
- Engaged with internal customers across SME, QA, and developer teams to gather requirements and optimize solution adoption
- 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

### 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 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
- Deployed and managed cloud infrastructure on Digital Ocean with domain configuration, SSL certificates, and application hosting

KEY PROJECTS

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**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

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**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

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

**Technologies:** Figma, Docker, Parasoft, PostgreSQL, Linux, React, Protege, Cloud Platforms, TouchGFX, Git Workflows