RAHUL SETH

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SUMMARY

Software Engineer with expertise in AI/ML systems, Python development, and embedded software for smart analyzers. Led AI initiatives at Baker Hughes saving 1,500+ engineering hours annually while delivering production software across 5+ product lines. Strong background in computer graphics, algorithm optimization, and building scalable automation platforms from embedded devices to cloud infrastructure

WORK EXPERIENCE

Baker Hughes   India
Software Engineer   *Sep'23 – Present*

- Retained through strategic Ireland-to-India relocation with expanded leadership and consulting responsibilities across 5 products
- Delivered 5 products in under 3 years with 3 successful market releases; served as lead on 1 and critical contributor on 2 major projects
- 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, password policy now standardized across all products 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 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   Ireland
Software Engineer   *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   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 (FastAPI) backend and PostgreSQL database for feedback collection and iterative LLM improvements

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:** VP Indian Society, Lead Formula Trinity, Voluntary Tuition Program, Top 5 group project (advanced to EU competition)

SKILLS

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

AI Test Case Validator - QA Automation Platform   **India**

Technical Lead   *Mar'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
- 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**

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