RAHUL SETH

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SUMMARY

Experienced in Ireland and India, I've led end-to-end development of embedded systems, UI/UX, and algorithm designs. Skilled in delivering high-impact, standards-compliant software leveraging Python, C, and TouchGFX.

WORK EXPERIENCE

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

- Relocated from Ireland to India, taking on leadership for 1 project and consulting responsibilities for 3
- 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
- Authored 4 design records in 1 year, spanning diverse topics including proprietary algorithms to image conversion scripts
- Led DevOps initiatives; integrated Parasoft test framework using GitHub Actions, & optimized build automation using scripts

Global Strategic Law Council — **India/USA**
Pro Bono Consultant *Jan'24 – Present*

- GSLC is a NPO dedicated to empowering communities & advancing social impact through law, offering pro bono assistance to those affected by climate change
- Developed a case summarizer powered by ChatGPT & Gemini, hosted on a website, supporting GSLC's legal workflows and data-driven decisions

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 first icon-based GUI for the product line, significantly improved user experience & reduced user error by 30%

Ericsson — **India**
AI Intern *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

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

KEY PROJECTS

HygroPro XP - Smart Moisture Analyzer — **India**
Lead Engineer *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) and collaborated with an external agency to achieve SIL 2 certification

SKILLS

Programming: Python (Pandas, Numpy, Sklearn, Django), C/C++, SQL, XML, Git, Matlab, TeX, Static Analysis

Technologies: IAR, Parasoft, PostgreSQL, Linux, SPSS, Protege, Figma, Touch GFX, Git Workflows