RAHUL SETH OGitHub LinkedIn OGurgaon, Haryana

SUMMARY

Software Engineer with proven leadership bridging embedded SW (STM32, Modbus/BLE) and intuitive UI design. Skilled in collaborating with product management and HW teams to deliver high-impact releases and enhanced user experiences under tight deadlines

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
- Created tasks in Micrium 3 to integrate TouchGFX with the application; gained exposure to RTOS operations
- 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

Pro Bono Consultant Jan'24 - Present

- GSLC is an NGO empowering communities & advancing social impact; providing pro bono law aid to those affected by climate change
- Developed an AI-based case summarizer powered by OpenAI, hosted on a React-based website, supporting GSLC's legal workflows

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%

India Ericsson

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

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) & 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