

## WORK EXPERIENCE

### Baker Hughes

Software Engineer

India

Sep'23 – Present

- Led software development in India, managing UI/UX aspects, mentoring engineers, and delivering high-quality solutions
- Directed 3+ software releases, delivering 8+ new features and resolving 20+ backlog bugs, ensuring on-time and stable product launches
- Led product release and drove technical delivery across 3 projects in 2 years, contributing to features, PDRs, & SRS
- Standardized 10+ hygrometry algorithms and created reusable documentation for future product development

### 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 a Windows application simulator for rapid prototyping - resulted in early user feedback driving usability
- Created the first icon-based GUI for the product line, significantly improved user experience & reduced user error by 30%

### Ericsson

AI Intern

India

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

BAI Computers and Electronics Engineering

Ireland

2018 – 2022

- 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 - Moisture Analyzer

Lead Engineer

India

Jan'24 - Oct'24

- Assumed project leadership and successfully delivered 2 major releases (March and October) after the previous lead engineer's departure
- Led a team of 3 developers, delivered 10 high-priority features and resolved 20+ bugs in the October release
- Facilitated design verification reviews, ensuring adherence to industry standards (including MISRA) and high-quality software
- Developed a Python-based hygrometry algorithm simulator, tested 20+ algorithms, & resolved 4 identified issues - improved accuracy from 10% to 3%
- Improved code modularity and application reliability by refactoring a monolithic 6000-line file, reducing its size by 33%
- Tech Stack:** Python, C, C++, IAR

### XMTC: Binary Gas Analyzer

Consultant Engineer

Ireland, India

Aug'22 – Mar'24

- Developed the communication and application layers for the XMTC, delivering a certified product integral to the company's portfolio
- Designed and implemented an intuitive UI/UX featuring over 30 screens and 5+ workflows, collaborating effectively with product managers and technologists
- Resolved over 40 bugs within 2 months, ensuring a timely and stable product release
- Conducted the cybersecurity review, a critical step for the release, to ensure adherence to security protocols and standards
- Contributed significantly to design reviews, driving discussions on architecture and ensuring alignment with project goals and SRS
- Tech Stack:** C, C++, Python, Figma, Parasoft

## SKILLS

**Programming:** Python, C, C++, SQL, XML, Git, Matlab, TeX, Static Analysis, Git Workflows

**Technologies:** IAR, Parasoft, PostgreSQL, Linux, SPSS, Protege, Figma