

SUMMARY

Software Engineer with **2+ years of experience** working with global teams to deliver scalable consumer applications. Skilled in **Python, React, FastAPI**, and **Figma** for UI/UX prototyping. Led end-to-end development of AI-powered full-stack solutions—such as an **OpenAI legal summarizer** and a **GPT-based WhatsApp assistant**.

At Baker Hughes, recognized as the **go-to engineer** for designing and implementing user-facing features across **four products**, standardizing hygrometry algorithms and driving TouchGFX-based UI enhancements.

I like to solve real-world consumer challenges through rapid iteration and full product ownership.

TECHNICAL SKILLS

Languages: Python, C/C++, XML, SQL, JavaScript, TeX

Frameworks/Tools: Figma, Parasoft, LangChain, FastAPI, React, Linux, Protege, TouchGFX

DevOps/Infra: Github Actions, Shell/Batch, Makefile, PostgreSQL, Linux, Agile/Scrum

WORK EXPERIENCE

Baker Hughes

Software Engineer

India

Sep'23 – Present

- Relocated from Ireland to India, taking on **leadership for 1 project** and **consulting on 3 others**
- Led product releases and managed technical delivery across **4 projects in 2 years**; contributed to **PDRs, SRSs, and implementation**
- Standardized **10+ hygrometry algorithms** and created **modular Python utilities** for data processing
- Spearheading frontend design for a **state-of-the-art hygrometer** using **TouchGFX and Figma**
- Authored **4 design records** on algorithm design, deployment automation, and image conversion
- Led DevOps initiatives; integrated **Parasoft test framework using GitHub Actions** and optimized build automation

Global Strategic Law Council

Pro Bono Full Stack Developer

India

Jan'25 – Present

- **GSLC** is an NGO empowering communities and advancing social impact through pro bono legal technology
- Built an **AI-powered case summarizer** with **Gemini, React, Go**, and **Python** to process legal PDFs and generate concise summaries
- Built a **React** frontend to present AI summaries and integrated a **PostgreSQL** database to capture and manage lawyer feedback
- Automated member signup and data collection workflows using **Google Apps Script**, reducing spreadsheet maintenance by **80%**

Baker Hughes

Software Engineer

Ireland

Aug'22 – Aug'23

- **Promoted** from Graduate Engineer to SWE 1 within 5 months
- Developed **backend simulation services** using Python; optimized data processing and automation pipelines
- Created the product line's **first icon-based GUI** for small monochrome displays; reduced user errors by **30%**

Ericsson

AI Intern

India

Jun'21 – Aug'21

- Implemented a **clustering-based query classifier** to route IT requests more efficiently
- Applied **NLP preprocessing, TF-IDF vectorization (Scikit-learn & NLTK)**, and k-means clustering

EDUCATION

Trinity College, Dublin

BAI Computers and Electronics Engineering

Ireland

2018 – 2022

- **Dissertation:** Survey and 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; built a sustainable water solution

KEY PROJECTS

GraphicsEngine – Embedded UI Code Generator

India

Personal Initiative

Mar'25 – Present

- Spearheaded a design-to-code tool to unify fragmented LCD UI workflows for 128x64 embedded displays
- Built a code generator using **Python (backend), React + Electron (frontend)** to generate C code from **Figma SVG uploads**
- Parsed SVG design elements (text, fonts, primitives) to output .dot files and static screen drawing code
- Unified legacy tools (CSV + StringDot) into a cross-platform EXE, used by **3 internal product teams**
- Reduced screen development time by **60%** and onboarding time for new developers by **40%**

HygroPro XP – Smart Moisture Analyzer

India

Lead Engineer

Jan'24 – Oct'24

- Took over mid-project; **launched 2 major releases** generating **\$500K in 6 months**
- Led a team of 3; delivered **10 high-priority features** and resolved **20+ bugs**
- Built a Python data service for sensor analytics; **reduced testing time by 1 month**, improved accuracy by **15%**
- Refactored 6000-line file to improve modularity and reduced code size by **33%**

XMTCpro – Smart Gas Analyzer

Ireland, India

Consulting Engineer

Aug'22 – Sep'24

- Designed and developed **UI/UX for 17 menus and 12 features**; helped generate **\$400K+ revenue in 2 months**
- Resolved **70+ bugs**, including 40 critical ones in a focused 2-month effort
- Led SAST & OSAT reviews across 7+ releases, ensured MISRA C compliance, and coordinated SIL 2 certification