

# Frank Lynam

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## Summary

Engineering leader with nearly 30 years of industry experience across regulated healthcare, cultural heritage, and satellite communications. Most recently I have specialised in regulated healthcare software and AI-assisted development. I build and grow engineering organisations, architect systems for high-stakes environments, and stay hands-on by working directly with the latest tooling. My background spans clinical platform engineering, FDA design-controlled software delivery, distributed team leadership, and full-stack development.

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## Technical Skills

- **AI/Agentic:** LangGraph, LiveKit, Claude Code, Cursor AI, MCP
  - **Languages:** TypeScript, JavaScript, Python, C#, Swift
  - **Frontend:** React, React Native, Three.js, D3.js
  - **Game/3D:** Unity, Blender
  - **Backend:** Node.js, FastAPI
  - **Database:** MongoDB, BigQuery, DynamoDB
  - **Cloud:** AWS (Lambda, API Gateway, DynamoDB, SageMaker), GCP
  - **Compliance:** HIPAA, SOC2, SaMD, FDA Design Control, ISO 13485, QMS, DevSecOps
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## Professional Experience

### Woebot Health, Dublin | Senior AI Engineer

Sep 2025 – Mar 2026

- Built a realtime multi-agent conversational AI system using LangGraph and LiveKit for voice and text interaction.
- Applied AI-assisted development practices daily using Claude Code and Cursor AI to accelerate delivery and improve engineering throughput.
- Full-stack development across Node.js, React Native, and Python.

### Woebot Health, Dublin | VP of Engineering

Aug 2021 – Apr 2025

- Served as second-in-command to the CTO, directly leading backend engineering teams across a distributed organisation of 30+ engineers in Dublin and the US.
- Led the delivery of a Software as a Medical Device (SaMD) mental health platform, achieving peak usage of millions of messages transmitted monthly with zero major production incidents.
- Drove a multi-year engineering effort to bring products under FDA design control, establishing QMS and ISO 13485-compliant release processes across the platform.
- Designed isolated execution environments enabling parallel clinical study deployments without cross-contamination.
- Owned the technical roadmap, aligning engineering execution with clinical product strategy and regulatory requirements including HIPAA and SOC2.

- Embedded CI/CD pipelines, automated testing, and rigorous code review standards enabling aggressive weekly delivery cadence without compromising clinical safety.
- Developed multiple engineers from individual contributor to senior and staff level.

### **Woebot Health, Dublin | Engineering Manager**

*Oct 2019 – Aug 2021*

- Grew the Dublin engineering team from 3 to 10, establishing the foundations of the backend platform engineering practice.
- Managed a backend engineering team building and deploying Node.js applications on AWS.

### **MinFarm Tech, Dublin | Senior Software Developer**

*Jan 2018 – Aug 2019*

- Contracted to explore and assess new business opportunities in the LoRaWAN remote IoT sensor domain.
- Delivered proofs of concept across mobile (iOS Swift), web (React), and backend (Node.js).

### **Noho, Dublin | Head of Interactive Development**

*Dec 2015 – Sep 2017*

- Directed a small software development team building AR/VR and multi-projector display solutions for immersive installations in the museum market.
- Notable clients included the National Museum of Ireland, the Allard Pierson Museum of Antiquities in Amsterdam, and Alltech.

### **Klas Group Holdings, Dublin | Chair of the Board**

*Aug 2013 – Dec 2014*

- Led the board through the successful sale of the group to a management consortium, with revenues rising to 5+ million USD annually.

### **Klas Group Holdings, Dublin | Director**

*May 2012 – Aug 2013*

- Provided technical oversight of the group's product development strategy, supporting the scaling of the team to 80 employees.

### **Klas Group Holdings, Dublin | Software Engineer**

*1998 – 2006*

- Built commercially successful products in the satcomm and hardware encryption domains.

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## **Projects**

### **Realtime Agentic Conversational AI | Woebot Health**

- Built a production realtime multi-agent conversational system using LangGraph and LiveKit for voice and text interaction.
- Implemented full-stack integration using Node.js and React Native, with a focus on long-term system coherence alongside delivery pace.

## **Large-Scale Backend Platform | Woebot Health**

- Led the engineering organisation delivering a backend platform serving millions of messages monthly across a 30+ person globally distributed team.
  - Achieved SOC2 certification and zero major production incidents across a multi-year delivery programme on AWS.
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## **Education**

**Trinity College Dublin** | Doctor of Philosophy (PhD) in Digital Arts and Humanities *2011 – 2015*

**Cambridge University** | Master of Philosophy (MPhil) in Archaeology — *with Distinction 2010 – 2011*

**Trinity College Dublin** | Bachelor of Arts (B.A.) in Ancient History and Archaeology / Italian — *First Class Honours 2006 – 2010*