

CATHY GUARINO

Principal engineer with 10+ years of experience leading frontend architecture, design systems and product experience for complex digital products. Combining technical expertise with strong design and product judgement to create user-centred software defined by attention to detail, craft and quality.

cathy-guarino.com | [LinkedIn](#) | Sydney, AU

Key achievements

- **Established frontend as a strategic discipline** within three organisations, bringing design and engineering together and building design infrastructure that enabled teams to build high-quality, scalable products.
- **Led frontend delivery for multiple complex digital products** from discovery through to production, including a product recognised with Australian Web and Good Design awards.
- **Shaped strategy across 12+ digital products**, partnering with users, designers and engineers to deliver intuitive, high-quality software. Specialised in complex, information-dense products where user clarity and trust are critical.
- **Designed and built design systems** that have become long-term foundations for growing products and reusable UI platforms across multiple teams.

Key skills

Expertise: Frontend architecture, Design systems, Product strategy, User experience (UX), User Interface (UI), Design engineering, Product engineering, Accessibility (WCAG), React & TypeScript, Technical leadership, Healthcare technology.

Technologies: React, TypeScript, JavaScript, Svelte, Next.js, GraphQL, Storybook, Tailwind CSS, Design Tokens, Figma, Git, Python, HTML, CSS, Claude Code, Cursor.

Principal Frontend Software Engineer Lumonus | Dec 2025 - Jun 2026

Series B AI healthcare company building an AI-powered radiation oncology platform used across 90+ clinics in Australia, UK and US.

Defined frontend strategy for two flagship AI-powered healthcare products, establishing engineering and quality systems to facilitate the platform's growth. Led product experience, frontend architecture and design systems across the organisation.

- Built an AI-native design system that enabled automated design workflow and a self-improving component library.
- Worked across design, engineering and product to shape features from early discovery to release.
- Established frontend architecture, component standards and engineering guardrails for AI-driven development.
- Introduced accessibility, interaction and frontend quality standards across multiple applications.
- Transformed complex real-world workflows into clear, intuitive software through direct user research.

Senior Software Engineer Portable | Oct 2023 - Nov 2025

Purpose-driven design studio delivering digital products for Australian organisations, government and not-for-profits.

Led frontend delivery across multidisciplinary product teams, working closely with designers, researchers and users to build complex digital services with a strong focus on craft and quality.

- Led frontend delivery across four major digital products spanning healthcare, justice, government and social impact.
- Built a system of reusable UI foundations adopted throughout the studio, improving delivery consistency and reducing development effort across projects.
- Led frontend for a product recognised with multiple Australian industry awards for innovation and product experience.

Senior Software Engineer & Designer Spinlock | Oct 2020 - Sep 2023

NSW-based cybersecurity company delivering secure web applications for a range of clients.

Owned product design and frontend engineering across multiple client products, helping organisations improve both product quality and engineering capability.

- Represented design across the company, bringing user experience into technical decision-making.
- Shaped product direction through workshops, prototyping and close client collaboration.
- Raised frontend quality and strengthened design thinking within engineering teams.

Senior Software Engineer & Designer SenseOn | Jul 2020 - Oct 2020 (contract)

London-based cybersecurity startup; AI-powered threat detection platform with ~30 enterprise customers.

Led the redesign of a flagship cybersecurity platform, shaping the core user experience for a fast-growing UK startup serving enterprise security teams.

- Led a team of six through concept, design, implementation and rollout of the redesigned platform.
- Transformed how analysts understood and acted on complex security information, reducing average resolution time.
- Redesigned complex workflows to improve clarity, usability and decision-making.

Principal Software Engineer British Telecom | Jan 2019 - Jul 2020

UK telecommunications provider; operations in 180 countries

Provided technical leadership across enterprise software projects, leading engineering teams delivering complex government and cybersecurity products.

- Co-led a multidisciplinary engineering team of 30 people.
- Directly managed up to 12 reports.
- Technical lead for three key cybersecurity products.

Software Engineer, Senior Software Engineer British Telecom | Sep 2014 - Jan 2019

Built enterprise software for government and enterprise organisations, progressing into senior engineering responsibilities across a broad range of technologies and projects.

Education

BSc Software Engineering (First Class Honours), 2014

Durham University, UK