

Andrew Byrne

Staff Technical Writer -- I build AI-powered developer tools and documentation systems.

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SUMMARY

Staff Technical Writer and developer tooling engineer specializing in AI knowledge systems. Documented foundational LLMs for Google Search and engineered internal platforms utilized by 10,000+ Googlers, scaling AI-assisted development workflows across the enterprise.

Core Philosophy: #AlwaysBeShipping

CORE SPECIALIZATIONS

AI Documentation & Knowledge Systems, Grounded AI & RAG Architecture, Prompt & Context Engineering, Context Primer Design, Agentic AI & Workflow Automation, Developer Tooling & DX, API & SDK Design, Documentation Architecture, Internal Developer Relations (DevRel), Polyglot Prototyping (Python, TypeScript), LLM-Assisted Engineering

Languages: English, German

AWARDS

- > **Google Tech Impact Award** Google-wide engineering honor recognizing high-leverage architectural impact, platform simplification, and large-scale user adoption across internal developer tooling.
- > **Gold Sweetie Award** Google's highest peer-nominated engineering honor for AI innovation within the Software Engineering (SWE) discipline.
- > **Silver Swifty Award** Google cross-functional impact award recognizing significant AI engineering contributions and velocity acceleration across non-SWE disciplines.

PROFESSIONAL EXPERIENCE

Google -- Staff Technical Writer, Core AI Systems

2025 - Present

- > Architected and shipped an internal AI community platform to 10,000+ Googlers (2,500 MAU). Operated as a solo full-stack engineer utilizing LLM workflows to deploy 1,000+ commits in 7 months before graduating the platform to a dedicated product team.
- > Pioneered structured context engineering for enterprise LLM workflows, establishing modular management methodologies that eliminated architectural drift across hundreds of automated coding sessions.
- > **Built production-grade operational tooling:** Engineered rollout controls, staged access gating, and real-time health monitoring to manage platform operations reliably at scale.
- > **AI Community Builder:** Founded and grew an internal developer community around AI-assisted development, knowledge sharing, and cross-team collaboration.

Google -- Staff Technical Writer, Core Developer

2023 - 2025

- > **Led Internal Developer Relations:** Oversaw technical content, events, and education across Google developer services.
- > Built and shipped a grounded AI chat interface delivered to over 100 internal doc sites at Google a pioneering knowledge delivery system where the AI was grounded in each site's own documentation, delivering contextually accurate answers.

Google -- Staff Technical Writer, Search

2021 - 2023

- > Documented the Large Language Models (LLMs) driving AI in Google Search, including MUM (Multitask Unified Model).

Google -- Staff Technical Writer, Cloud

2019 - 2021

- > **Cloud Spanner Documentation Lead:** Documented 10+ major features including Foreign Keys, Query Optimizer, Introspection Tools, and Spanner SQL.

Microsoft -- Senior Engineering & Content Development Manager

2006 - 2019

Leveraged 15 years of enterprise engineering experience at Microsoft to deliver scalable software solutions, manage high-impact developer advocacy teams, and author mission-critical documentation.

- > **Azure Platform Evangelism:** Created Azure Developer technical courses on Microsoft Learn.
- > **Worldwide Learning:** Created edX courses with 10,000+ students and an NSAT of 142.
- > **Developer Advocacy:** Led engineering of Microsoft Graph SDKs across iOS, Android, .NET, and Web.
- > **Office Add-ins:** Led development of 50+ GitHub code samples for Microsoft Graph and Office.
- > **Windows Phone:** Published 8 apps with 1.5M+ downloads.
- > **Visual Studio:** Built ALM tools, UML, and Architecture Explorer for Visual Studio Ultimate.

Earlier Experience

Prior to 2006, held leadership and senior development roles including Founder/CTO (3TL), Development Manager (Pioneer Investments, Ericsson), and Senior Software Developer (Siemens).

PATENTS (MICROSOFT)

- > **Storage of Captured Sensitive Data With Bypass of Local Storage** (US 9,736,139)
- > **Localized Layout and Routing in an Interactive Diagramming System** (US 8,543,944)
- > **User Augmented Reverse Engineering** (US 8,954,925)
- > **Creation, Editing and Navigation of Diagrams** (US App 12/972,060)
- > **Highlighting Changes on Computer Diagrams** (US 9,110,763)

PUBLICATIONS & WRITING

- > **"Beyond Vibe-Coding: 5 Lessons from Shipping an AI App to 10,000 Googlers"** [Medium, 2026](#)
Moving past AI 'vibe coding' toward rigorous systems architecture and sustainable engineering.
- > **"The Unexpected Tool I Use to Organize My AI Prompts"** [Medium, 2025](#)
Turning secure password vaults into instant, cross-device searchable prompt libraries.
- > **"AI In Real Life (IRL): Practical Multimodal Problem Solving"** [Medium, 2024](#)
Case study exploring everyday computer vision and Circle to Search for real-world DIY repair.

EDUCATION

M.Eng. Electronic Systems | Dublin City University, Ireland

B.Eng. Electronic Engineering | Dublin City University, Ireland

CREATIVE ENGINEERING

The App Cottage | theappcottage.com

Engineered a suite of secure, client-side web applications and automated workflows utilizing React, TypeScript, and modern monorepo architectures.