# Barry Prendergast

Senior Full-Stack Engineer

*Fifteen years of Angular at enterprise scale. Now directing AI agents to build security-first Go backends.*

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## EXPERIENCE

March 2026 — Present
Madrid

### Independent

*Frontend architecture and AI-directed delivery of secure Go backends*

- Set the constraints, directed AI agents through implementation, and own the result: the FSG Environmental Data Portal, the Archway Orthotics portal, Secure UI Components and SAUI (see Projects)
- Completed the Advanced Cybersecurity & Cyber Intelligence diploma at CADEL, covering penetration testing methodology, SOC analysis, and the Kali Linux, Burp Suite, OWASP ZAP, SQLMap and Metasploit toolchain

September 2020 — March 2026
Madrid

### Quality Compusoft

*Senior Frontend Developer*

Principal frontend architect for Telefy, an enterprise media management platform for dental and veterinary TV networks.

- Architected a complete Angular application from the ground up (v13 -> v18 -> v20): a dual-interface platform with an admin dashboard and a user-facing app covering device management, real-time streaming, drag-and-drop playlist creation, and social media integrations
- Created 115+ custom components, including a 27-component UI library built without external frameworks (inputs, selects, dropzones, modals, sliders, media viewers), with hand-coded responsive CSS on Grid/Flexbox, cutting bundle size 40%
- Implemented the frontend UI and user flows for social integrations (Facebook, Instagram, TikTok, YouTube, X/Twitter): OAuth authorization screens, connection status, content feed views, and posting workflows, in collaboration with the backend team

July 2019 — September 2020
Madrid

### Career break

*Parental*

Full-time carer for two young children.

July 2017 — July 2019
Madrid

### Arcmedia AG

*Senior Front-End Developer*

- Delivered responsive layouts across client projects, mainly in Drupal, with one project in Angular 8
- Configured and implemented email templates with Foundation for Emails

February 2016 — June 2017
Madrid

### GRADDO — *Senior Frontend Developer*

April 2015 — February 2016
Madrid

### Cecabank — *Front-End Developer*

September 2014 — February 2015
Madrid

### Vivocom — *Front-End Developer*

April 2013 — September 2014
Madrid

### Vocento — *Front-End Developer*

September 2012 — December 2012
Madrid

### Full-time study

*Web Application Development, Ondas Formación*

Retrained on HTML5, CSS3, JavaScript and jQuery (see Education).

2008 — 2011

### Mercantis — *Web Layout Developer*

## SELECTED PROJECTS

Client engagement
September 2026 — Present

### FSG Environmental Data Portal

Multi-tenant carbon accounting portal for an Irish sustainability consultancy: clients log energy, water, waste and travel, and the portal reports Scope 1/2/3 emissions with a full audit trail.

- Kept each client organisation's data apart in the SQL itself rather than in Go conditionals, so a forged id reads or writes nothing; database-backed tests prove it, and CI fails if they are skipped
- Required a second factor for FSG staff (TOTP or a single-use recovery code) before any session exists, with lockout after repeated wrong codes and email alerts when it is set up, reset or bypassed with a recovery code

fsgportal.org

Own project

### Secure UI Components

Zero-dependency, security-first Web Components library and its Go-built showcase site.

- Designed a zero-runtime-dependency TypeScript Web Components library covering OWASP Top 10:2021 (A01–A10) with security active by default: CSRF protection, XSS sanitisation, audit logging, and closed Shadow DOM isolation, none of it requiring developer configuration
- Specified <secure-telemetry-provider>: CAPTCHA-free bot detection using HMAC-SHA-256 signed behavioural signal envelopes (webdriver flag, headless detection, mouse/keyboard presence, submit timing, screen dimensions). Signals are verified server-side, and the data never leaves the developer's infrastructure

secure-ui-web.fly.dev · github.com/Barryprender/Secure-UI · npm: secure-ui-components
agensi.io: secure-web-components-craft

Own project

### SAUI — Server-Authoritative UI

A web architecture where the server owns all state and the browser is a stateless view of it.

- Wrote and published the architecture: the gateway contract, the two-layer state model, and the action pattern. The argument is that a UI displaying server state is correct by definition, while one holding its own copy is eventually wrong
- Specified the reference implementation, built by agents to my constraints: Go, SQLite and htmx, no client state, no build step, no framework

saui.fly.dev

Client engagement
June 2026 — July 2026

### Archway Orthotics Portal

Practitioner-to-lab ordering portal for an Irish medical-device manufacturer, replacing an email and Dropbox workflow.

archway-orthotics-portal.fly.dev

Product demo

### Archway Orthotics site rebuild

The flagship demo for SiteForge: a Wix marketing site rebuilt as a fast, self-editable Go site.

Own project

### AI Harness

Governance harness for AI coding agents: it makes unverified code hard to ship.

github.com/Barryprender/AI-Harness

## SKILLS

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|---|---|
| Frontend | Angular (v1–20) · TypeScript · RxJS · Web Components · HTML5 / CSS3 · Grid & Flexbox architecture |
| Backend & Systems | Go · SQLite · REST APIs · Fly.io |
| Security | OWASP Top 10 · CSRF / XSS mitigation · HMAC-SHA-256 signing · Penetration testing · Kali Linux · Burp Suite · OWASP ZAP · SQLMap · Metasploit · Wireshark |
| Practice | i18n / l10n · Git · Component library design · Framework-agnostic architecture · AI agent orchestration · AI agent skill authoring · CI verification gates |
| Languages | English — Native · Spanish — Professional working proficiency, 20 years in Madrid |

## EDUCATION

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|---|---|
| October 2025 — March 2026 | **cadel.es** — *Advanced Cybersecurity & Cyber Intelligence Diploma* |
| September 2012 — December 2012 | **Ondas Formación** — *Web Application Development — HTML5, CSS3, JavaScript, jQuery* |