Gonzalo Alvarez de Aldecoa

Telecommunications engineer, MBA

Full-stack developer and analyst on custom software projects, mainly involving web technologies.

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EXPERIENCE

SOFTWARE ENGINEER (2006–ongoing)

Nexus5

Tasks and competencies overview:

- Developing **custom software**, standalone or supplementing existing infrastructure. Mostly **php** plus **MySQL** and **C#** plus **SQL Server** server-side, and **JavaScript** over **HTML5** client-side. Some **python** experience. Version control using **Git**. Application virtualization using **Docker**. Project tracking with **Jira**.

- Deploying and enhancing **web services, pages and applications** with and without CMS (WordPress). Deployment of **e-commerce** software (PrestaShop, WooCommerce). **SEO/SEM** strategies and solutions.

- **Requirement analysis** and contract-oriented requirement **documentation**. **Consulting and data mining** for documentation with specific requirements, such as ISO certifications and SAF-T.

Significant project tasks, for selected clients:

- **Naturgy Engineering**, nuclear engineering (2008–ongoing):

  ○ **Data modeling, processing and analysis** for nuclear waste management services for ENRESA and Almaraz-Trillo powerplants, including full **technical specification, validation tools and reports**.

  ○ Support for the **development of a human-machine interface** for the simulation kernel developed between GNFe and Tecnatom of the Jules-Horowitz's Reactor, a research nuclear reactor.

- **El Deseo**, Agustín and Pedro Almodóvar's film production company (2008–ongoing):

  ○ Development of a **time control service and progressive web application**, with offline functionality, cryptographic features and geolocation.

  ○ **Front-end development** for Kinematic, a proprietary **web service for reviewing production dailies**.

  ○ **IT for films and TV**: "The room next door" (Pedro Almodóvar, 2024), "Mentiras pasajeras" (Blanca Andrés Gómez, Nerea Castro, 2023), "Strange way of life" (Pedro Almodóvar, 2023), "Parallel mothers" (Pedro Almodóvar, 2021), "It snows in Benidorm" (Isabel Coixet, 2020), "Pain and glory" (Pedro Almodóvar, 2019), "Julieta" (Pedro Almodóvar, 2016), "I'm so excited!" (Pedro Almodóvar, 2013), "The skin I live in" (Pedro Almodóvar, 2011), "Broken embraces" (Pedro Almodóvar, 2009), "El patio de mi cárcel" (Belén Macías, 2008).

    ▪ Building multi-language **custom web services and pages** with geographical restrictions, HTML5 animations, audio/video content, and ticket sales services integration.

    ▪ **Generating content** based on designs by different studios, mainly Mariscal, Gatti, and Barfutura.

    ▪ Creating **HTML5 ads for on-line campaigns** distributed by Sizmek, Initiative, MagnaGlobal…

- **Signet Armorlite Ibérica / Essilor**, ophthalmic lenses manufacturer (2006–2016):

  ○ Lead developer in Kodakonnect, a **web ecosystem for optometrists** that enabled on-line calculus, ordering, manufacturing and tracking of ophthalmic lenses with third party CRM, ERP and/or POS integrations. **Multi-national deployment** (Spain, Portugal, Germany), over 2,000,000 units processed.

  ○ **Support for third party applications**: legacy code maintenance and update for an application with a 30-year-old C core and 4GL over Informix, deployment and maintenance of a Navision database.

  ○ **Data mining** for the generation of Standard Audit File for Tax (PT) compliant documents.

ANALYST/PROGRAMMER (2000–2006)

Member of a development team dedicated to implementing services and tools for ARFO, a custom and propietary **e-learning** platform used in Spain and Latin America. Main tasks:

- Development of an on-line real-time collaboration tool for teams: a **web team chat client** synchronized with an IRC server with support for private and shared spaces.

- Study and development of a testing module and **test building tools** for multiple test configurations.

- All development required **version control** for the SQL/php/JS code with **SVN**, integrated with **Bugzilla** for bug tracking.

DEGREES AND CERTIFICATES

Masters' Degree in Business Administration (GIO UPM, 2007).

Masters' Degree in Telecommunication Engineering, major in Telematics (ETSIT UPM, 2006).

Zertifikat Deutsch (Goethe Institut, 2005).

Ciclo Superior, Inglés (Escuela Oficial de Idiomas, 1995).

Certificate of Proficiency in English (CELA, University of Cambridge, 1994).

LANGUAGES

Spanish.   Native language.

English.   Bilingual (C2, certified with CPE).

French.   Basic knowledge
(Lycée Français de Madrid, 1993–1996).

German.   Basic knowledge
(B1, certified with ZD).

ADDITIONAL INFORMATION

Member of Eurielec (EESTEC LC Madrid) from 1997 to 2022.

Technical writer of galdecoa.com.