

Damian Mendez Romera

Senior Full Stack Developer

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Profile

I'm a senior full stack developer with almost 20 years of experience in software architecture, cloud infrastructure, product strategy and market validation.

I am most useful when priorities change or a problem does not fit neatly inside one role. Managers often turn to me to test assumptions about what to build or work through technical problems without obvious answers, while I remain hands-on with architecture and code.

Recently, I founded and sold an AI invoicing product and built a production RAG system that processed thousands of mining-related documents each day.

Skills

Languages and frameworks

TypeScript, JavaScript, React, React Native, Redux, React Router, TanStack, Remix, Node.js, Express.js, Prisma ORM, Ruby on Rails

Data

MySQL, PostgreSQL, OpenSearch / Elasticsearch, MongoDB

Cloud

AWS (S3, SSM, EC2, API Gateway, RDS, Lambda, SQS, CloudWatch, EventBridge), Docker, GitHub Actions

AI systems

OpenAI API, open-weight models, embeddings, vector stores, structured outputs, document and image processing, retrieval-augmented generation (RAG), large language models (LLMs)

Experience

Senior Software Engineer | YLD Agency (2025 - 2026)

- Joined on a short fixed-term contract to cover an employee's sabbatical and contribute to an open-source platform for coordination among Parkinson's disease researchers: [ASAP Hub](#).
- Implemented webhook pipelines with AWS EventBridge, SQS, and Lambda to index data in OpenSearch and defined OpenSearch aggregation and query-boosting strategies for data retrieval.
- Led the React 18 migration of a six-year-old monorepo with multiple applications and shared packages. This meant updating more than 10,000 tests under a 99.99% test-coverage requirement.
- Resolved React 18 compatibility issues involving React Router, React Testing Library, linters, libraries, and bundlers.
- Planned and coordinated this migration with developers and management so feature delivery could continue throughout the work.

Experience (cont.)

Tech Lead | Digbee (2019 - 2025)

- Designed Digbee's AWS infrastructure and led a three-person development team through the adoption of Docker, multi-server CI/CD pipelines, and automated releases with GitHub Actions.
 - Established unit, end-to-end, and manual testing practices and added pre-deployment database checks. Set up centralized logs, monitoring, and alerts to track issues in production.
 - Designed, built and maintained the document-ingestion system behind the company's main revenue-generating product. It processed thousands of mining ESG documents each day using OpenAI embeddings, vector stores, S3, and structured LLM outputs.
 - Built cloud systems for PDF and image generation, background job queues, embeddable widgets and UI component libraries.
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Founder | Entrepreneurial Projects (2024 - 2026)

- Built [Adviara](#): invoicing software for the Andorran accounting market that used Qwen open-weight models on private infrastructure to recognize and track invoices, purchase receipts, reports, and other documents.
 - Sold Adviara in March 2026. The product remains in use by accountants in Andorra to manage their clients.
 - Built [TukiDocs](#), a document-processing system that used configurable templates, image recognition, and structured OpenAI outputs to turn IDs, invoices, passports, and other documents into standardized records. The project has been discontinued.
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Senior Full-Stack Developer | Various Companies (2012 - 2019)

- At SENSU K.K. in Japan I built a Google Drive-like product for professional photographers and managed its AWS infrastructure. Virtualization kept its complex React animations running at 60FPS. [See what the product looked like](#) at the time (recorded from the web browser).
 - Served as technical lead during [Flowics](#)' startup phase. Designed a WYSIWYG web builder that let nontechnical users create responsive websites, including its drag-and-drop and data-visualization systems. [See what the product looked like](#) at the time.
 - Developed core front-end interactions during [Mural](#)'s early product development, including element rotation, rich-text editing, board scaling and zooming, and physics-based behavior before JavaScript libraries existed for those problems. [See what the product looked like](#) at the time.
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Software Developer | Enterprise Companies (2007 - 2012)

Notable positions at [Network Solutions](#) and [Globant](#) developing cross-browser JavaScript applications.