

Ariadna Ballestar Mateo

AI Lead — Autonomous Agent Design & Engineering

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PROFESSIONAL SUMMARY

AI Lead at Cronuts, responsible for designing and shipping autonomous agents in production: systems that break down tasks, manage context across a workflow, and independently decide when to escalate to human-in-the-loop. I build these agents with Claude Code and Python, integrating them with corporate tools via APIs (GitHub, Notion, Slack, Resend). I identify internal workflow automation opportunities and take them from prototype to production, documenting architecture and best practices for team-wide adoption. Prior experience as a full-stack web developer (JavaScript, TypeScript, React, PHP, SQL), with a proven ability to translate business needs into measurable technical solutions and communicate technical concepts to both technical and non-technical audiences.

EXPERIENCE

AI Lead — Cronuts, Barcelona

2026 – Present

- Own the agency's AI strategy: identifying automation opportunities, selecting tooling, and deploying autonomous agents to production.
- Designed and built an autonomous Claude Code agent that reviews and merges pull requests daily, backed by branch protection and semantic versioning — 100% of trivial merges handled with no supervision.
- Designed a Python automation pipeline orchestrating three external data sources with deduplication and automatic validation: 517 records processed, 357 verified in under 24 hours.
- Built an internal tool via reverse engineering for a corporate system with no official API — adopted agency-wide at zero extra cost.
- Led the architecture, workflow, and documentation of a new development stack, establishing the end-to-end process for the whole team.
- Designed and deployed an MCP server (Cloudflare Worker backend) giving the Growth team full natural-language access to client sites — removing their dependency on Product, and trained the team to use it.

Web Developer & Process Automation — Cronuts, Barcelona

2024 – 2026

- Designed and built a custom data-capture integration: real-time sync across three different corporate tools (database, messaging, email) in under 2 seconds, with no manual intervention.
- Extracted, cleaned, and validated data with Python (scraping, deduplication, email verification) for client campaigns.
- Integrated a third-party payment gateway with a secure signing protocol (HMAC-SHA256) and designed a custom database schema — security hardening for client systems.
- Direct coordination with clients and internal teams, translating business needs into technical solutions delivered on schedule.

Web Developer — Collectif Pluma, Lyon / Interactivos, Barcelona

- Started out as a full-stack web developer: built custom sites with JavaScript, HTML, and CSS, optimized performance, and collaborated with multidisciplinary teams.

KEY TECHNICAL PROJECTS

Autonomous code-review agent (Claude Code, Python, GitHub API)

Multi-stage system with autonomous decision-making and human-in-the-loop escalation. Result: 100% of trivial merges handled with no supervision.

Data automation pipeline (Python)

Orchestration of three data sources with deduplication and validation. Result: 357 records verified in under 24 hours.

Real-time multi-tool integration (REST APIs)

Parallel sync across three distinct corporate systems. Result: end-to-end notification in under 2 seconds.

Integration with a system with no official API (reverse engineering)

Data extraction and a distributable internal tool. Result: adopted agency-wide, zero added cost.

TECHNICAL SKILLS

AI & Automation: Claude Code, Anthropic API (LLMs), Python, multi-stage agent architecture, human-in-the-loop design, workflow automation, Make, N8N

Development: JavaScript, TypeScript, React, Astro, PHP, SQL & data modeling, version control (Git, GitHub, semantic versioning, branch protection)

Integrations: REST APIs, Notion API, Slack API, GitHub API

EDUCATION

Web Application Development — Ilerna — GPA 9.1/10

Fine Arts — University of Barcelona

Front-End Engineering — CodeSignal

LANGUAGES

Spanish — Native

Catalan — Native

English — B2