Sebastián Arduz

Full-Stack Engineer (TypeScript) · Automation, Integrations and Outbound Systems

Sucre, Bolivia (UTC-4, US Eastern hours) · Remote · Available from November 2026

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Summary

Full-stack TypeScript engineer. One year as the in-house engineer and automation owner of a US B2B outbound agency, working alongside its technical founder: 80 pull requests merged to a production Next.js, Prisma, PostgreSQL and Trigger.dev monorepo, 13 scheduled monitors with Slack and email alerts, root-cause fixes shipped to production, and the GoHighLevel, Instantly and Microsoft 365 automation layer around it. Daily Claude Code user; nothing merges without guard checks, an independent review pass and my own read of the diff. Java and Spring Boot before that. Native Spanish, English C1, UTC-4, available for US or EU hours.

Experience

Full-Stack Engineer (TypeScript) · Leveraged Operations (Local GTM), US, remote contract

Dec 2025 - Oct 2026

In-house engineer and automation owner, working alongside the technical founder, for an outbound sales operation (cold email on Instantly, SDR cold calling on GoHighLevel, lead generation) serving US local-service businesses. Dec 2025 to Jun 2026: client integrations and data work, Microsoft 365 email infrastructure and lead pipelines. Jul to Oct 2026: 80 merged PRs to the core platform, 114 commits in all.

- **80 PRs merged to the production monorepo in 114 commits (Jul to Oct 2026)**: Next.js 16 (App Router) / React 19, oRPC API, Prisma on PostgreSQL (Supabase), Trigger.dev jobs; 19 SQL migrations and 16 new guard-check files in a codebase of 306 oRPC procedures and 227 Prisma models. Owner-merged until Sept 2026, then trusted to merge my own PRs under the same gate (Biome, type-check, build and an independent AI review pass before merge), each deploy confirmed against the live /api/version SHA.
- **Rebuilt the founder's base team chat into a Slack-style chat in 16 PRs over 5 days**: DMs, @mentions, reactions, quoted replies, image paste, in-app and OS notifications, WCAG-AA avatar palette; later added presence and manager email alerts on new posts.
- **Upgraded the SDR lead-approval workflow in 8 PRs merged in one day** (3,843 lines, 74/74 guard checks): AI first drafts with a placeholder guard, reject-reason presets with AI prefill, per-rep 7-day stats, automatic 3-day callback tasks.
- **Wrote 13 scheduled Trigger.dev monitors with Slack and email alerts**: a bounce guardrail (alerts above 3% on 200+ sends in 7 days, informs and never auto-pauses), reply-rate decay, lead runway, live campaigns with zero leads, paying clients with zero fulfillment, and nightly dial readiness.

- **Root-caused production incidents and shipped tested fixes, several merged the same day**: dialer queues stacking other clients' leads across shifts (10 leak paths confirmed by a 36-agent adversarial audit of my own branch, one rep's queue spanning 14 clients), fixed the same day behind a gate that refuses to load until the queue verifies empty, a nightly job that aborted every night but reported COMPLETED for four weeks, 127 renewed domains falsely flagged as expired (now cross-checked against the registry over RDAP), and a caller-ID warning rebuilt for Local Presence Dialing and backtested against real call records (6,882 evaluations, 0 mismatches).
- **Provisioned the cold-email infrastructure**: 9 Microsoft 365 tenants (about 225 shared mailboxes) with SPF/DKIM/DMARC through the Cloudflare API, using 26 PowerShell scripts and 2 Playwright bots (mailbox creation, Instantly OAuth connection at 97% first-try success); audited 497 domains and 2,646 IPs against DNS blocklists and showed the listings sat on domains, not sending IPs; purged 46,192 non-responders across 42 campaigns by API, backing up to CSV the campaigns worth keeping and verifying each one ended holding exactly its repliers, all 1,538 of them.
- **Built the lead pipeline from scrape to draft campaign**: D7 and Apify scraping with cost caps, normalization and dedupe, a verification waterfall (MillionVerifier, then a Reacher SMTP pass I added after proving the single pass had let 57 of 64 real bounces through, then Reoon), LLM scope screening, and Instantly draft campaigns created by API; 22,728 geo-clean contacts in 29 builds for 32 clients, 27 of 29 passing a 40-row spot-check with controls.
- **Campaign and reply tooling on live Instantly data**: a copy linter on live and draft Instantly campaigns (13 gates, spintax rendered as the prospect sees it) plus a 17-gate pass over the copy masters before upload; the first sweep flagged 71 drafts with 498 failures and exposed an Instantly API bug that silently blanked bodies formatted with br tags only), an admin escalation board for cold-email replies, and a 90-day reply review (302 campaigns, 378,605 emails, 4,063 replies, with an LLM classifying a 680-reply sample) showing the referral angle produced 39 of 48 opportunities.
- **Hardened public and paid endpoints**: per-organization daily quotas and a global circuit breaker on paid job fan-outs, rate limits and input caps on public routes, security headers (HSTS, nosniff, X-Frame-Options), and a rate-limited passcode login.
- **AI engineering with Claude Code**: authored skills (a cold-email copy reviewer with a 9-case regression harness, graded against 365 real campaigns tiered by results; a client positive-reply triage skill) and 62 ops scripts; multi-agent workflows where one model pass is not enough (10-agent lead scoping with 2 auditors, 24-judge copy QA, 36-agent dialer audit); and a monorepo index that halved the agent bootstrap file (921 to 463 lines).
- **Technical support for the SDR team**: GoHighLevel dialer provisioning with least-privilege scopes, local numbers and custom fields for each new cohort, designated approver of the lead and email queues (the gate for paid leads), candidate screening for the hiring funnel, and 10 runbooks and SOPs.

Full-Stack Engineer (Node.js) · Chatter Champions (creator-talent agency), remote contract, in parallel with the role above

May 2026 - Aug 2026

Hiring funnel and training portal for a remote chat-support workforce: Express, PostgreSQL (Supabase) with Google Sheets dual-write, Airtable, GoHighLevel, Trigger.dev, xAI Grok, Resend, Telegram, Dokploy.

- **83 merged PRs (100 commits on main, +11.3k lines, 64 branches)** across product features, automations and admin tooling, under a protected-main PR workflow.
- **Fixed the incident behind a 5-of-8 interview no-show day**: GoHighLevel reminder emails carried broken Google Meet links. Created the missing custom field via API, backfilled 28 bookings and shipped the Trigger.dev fix (meeting-link sync plus a one-booking-per-contact rule).
- **Built the AI interview simulator and the interview-integrity layer**: capture-only chat with a cost cap, transcript review with a hire or not-a-fit decision, interviewer invites, drop-off and abandonment recovery jobs on Trigger.dev; serial-rescheduler tracking, automatic no-show detection with a daily digest, auto-ban of rejected and no-show applicants, booking-time blacklist, and an intake screen-out rolled out as an A/B test.
- **Admin and HR tooling**: manager role with gated writes, hired-by-contract-date view with behind-schedule badges, trainee-completion view, daily HR alerts, Airtable sync, and a shift template editor that generates any number of weeks of shifts.

Freelance Software Developer (Java / Spring Boot) · Sucre, Bolivia

Nov 2024 - Nov 2025

- **Car dealership management system (CrediAutos, Feb to Apr 2025):** JavaFX desktop app on Spring Boot (Spring Data JPA) and MySQL: admin login and full CRUD for customers, vehicles, quotes, maintenance records and reminders, with printable quotes. Repo: github.com/Sebillasxd2/ConcesionariaVehiculos.
- **Private clinic records system (Nov 2024 to Jan 2025):** JavaFX desktop app on Spring Boot (Spring Data JPA) and MySQL: patient records, clinical case history, vital signs and search. Repo: github.com/Sebillasxd2/ConsultorioMedico (uploaded as a single snapshot in April 2025).
- Also: CajaVentas, a Python/SQLite point-of-sale (2025, private repo).

Education & certifications

- **B.Eng. in Systems Engineering (in progress, 8th semester)**, Universidad San Francisco Xavier de Chuquisaca, Sucre · 2021 - present. Current coursework includes an AI course built on PyTorch.
- **Oracle Next Education F2 T6, Back-end track** (Oracle + Alura) · 2024 · Java, Spring Boot, REST APIs, databases.
- **English C1**, Centro Boliviano Americano (CBA), full program graduate · 2020.

Skills

- **Languages:** TypeScript / JavaScript (Node.js), SQL, Java, Python, PowerShell, Bash
- **Backend and data:** Next.js 16 (App Router), REST APIs, oRPC (on Hono), Express, Prisma, PostgreSQL (Supabase, PostgREST), MySQL, Spring Boot, background jobs and scheduled tasks (Trigger.dev), webhooks, OAuth integrations, data pipelines (ETL, dedupe, verification)
- **Frontend:** React, Tailwind CSS, shadcn/ui, responsive UI, WCAG-AA color contrast
- **Outbound and GTM systems:** cold email infrastructure (Microsoft 365 / Exchange Online tenants, mailbox provisioning, warm-up, SPF/DKIM/DMARC, DNSBL audits, inbox placement analysis), Instantly API v2 (campaign creation, lead moves and purges, webhooks), email verification waterfall (MillionVerifier, Reacher, Reoon), list

building and ICP scoping (D7, Apify, Clay, LLM scope filter), reply classification and routing, copy QA and spintax linting, GoHighLevel CRM and power dialer (user provisioning, workflow design and audit, custom fields, caller ID drift detection under Local Presence Dialing), and n8n automations early in the role, before that work moved to Trigger.dev

- **AI engineering:** Claude Code (skills, hooks, multi-agent workflows, scheduled routines), Anthropic and OpenAI APIs, xAI Grok, prompt engineering, LLM-as-judge evaluations
- **Engineering practice and infra:** Git / GitHub PR workflow, code review, CI/CD (GitHub Actions), automated guard checks, Biome, pnpm monorepos, Playwright, Dokploy (Docker-based deploys), Nginx, Linux VPS (Hetzner), Cloudflare API, Airtable, Google Sheets / Drive APIs, Resend, Slack, Telegram, production monitoring and alerting, incident response, technical documentation (SOPs, runbooks)