

Agustín Zago

Software Engineer — Backend & Platform

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SUMMARY

Full-stack engineer focused on backend and platform work: third-party integrations, distributed data pipelines and AI-powered product features. I build in Node.js and TypeScript on AWS, with React on the front end, and I care about systems that stay correct under concurrency, retries and flaky upstream APIs. Advanced English (C1), Italian citizenship, open to remote and relocation.

EXPERIENCE

Lead Platform Engineer, Brainer

Mar 2026 – Present · Remote

AI-powered candidate screening platform that plugs directly into recruiters' ATS.

- Built four production ATS integrations end to end — BambooHR, Teamtailor, Pinpoint and Greenhouse Harvest v3 — covering OAuth connection flows, job and candidate sync, resume ingestion, and bidirectional write-back of stage moves, rejections, notes and AI scores.
- Migrated the Greenhouse connector from Harvest v1 to the v3 Partner OAuth API using a dual-vendor model, so both versions ran side by side and existing customers migrated with no downtime and no re-onboarding.
- Designed a cursor-paginated sync layer on AWS Lambda that streams ATS records into OpenSearch, with per-vendor rate limiting, exponential backoff on 429s and idempotent retries across resumable pages.
- Built Candidate Pools, a conversational search experience combining hybrid retrieval over OpenSearch (keyword + vector embeddings), Cohere reranking served through Amazon Bedrock, and per-criterion AI evaluation of every shortlisted candidate with streaming UI updates.
- Shipped Candidate Rediscovery, re-evaluating a company's entire historical ATS database against any new opening to turn dormant applicant data into a sourcing channel; rolled out progressively behind team-scoped feature flags.
- Hardened the distributed import and evaluation pipeline on Redis-backed workers with claim-and-recover semantics for stale runs, enqueue deduplication and cancellation handling, eliminating stuck and double-completed jobs.
- Implemented automated OAuth token rotation on AWS Secrets Manager for vendors issuing rotating refresh tokens, removing a recurring class of silent integration failures.

Software Engineer, Winclap

Jan 2025 – Mar 2026 · Córdoba, Argentina (Hybrid)

Serverless media intelligence platform for cross-platform advertising campaigns.

- Built and scaled a serverless media platform on SST, tRPC, React and AWS (Lambda, DynamoDB, OpenSearch, S3) supporting seven advertising platforms — Google Ads, Facebook, TikTok, LinkedIn, Twitter, Moloco and Liftoff.
- Architected type-safe, high-throughput APIs capable of serving 10,000+ advertising assets per query for cross-platform analysis.
- Developed AI-powered asset quality intelligence producing real-time health scores, compliance checks and automated correction suggestions across campaigns.
- Designed predictive alerting that combined quality degradation, budget anomalies and change velocity into proactive account-management signals, including >50% budget variance alerts.
- Implemented localisation across Spanish, English and Portuguese, including translation key management and regional variants.

Fullstack Developer, ITLG

Jan 2024 – Jan 2025 · Córdoba, Argentina (Hybrid)

- Led a full-stack feature that improved application performance by 30%, using React on the front end and Node.js for backend processing.
- Redesigned a core module's UI and backend architecture, raising user satisfaction and engagement by 25% through better data-access patterns and database management.

- Introduced TypeScript across React and Node.js codebases, reducing runtime errors and improving maintainability for the whole team.
- Implemented RESTful APIs and third-party integrations with secure data handling between client and server.

Backend Developer, ITLG

May 2023 – Jan 2024 · Córdoba, Argentina (Hybrid)

- Built an automated scheduling system with Control-M that cut manual operational workload by 40%.
- Optimised database performance by rewriting SQL queries, reducing execution time by 20%.
- Streamlined data integration pipelines with DataStage, improving data accuracy and consistency across systems.

Python Tutor, Freelance

Jan 2022 – Dec 2022 · Córdoba, Argentina (Remote)

- Mentored 10+ San Andrés College students through personalised Python tutoring, with a 100% success rate on their college projects.
- Created a Python curriculum and coding workshops tailored to individual learning needs.

SKILLS

Languages: TypeScript, JavaScript, Python, SQL

Backend: Node.js, NestJS, Strapi, tRPC, REST APIs, OAuth 2.0, PostgreSQL, Redis

Frontend: React, Next.js, Tailwind CSS

Cloud & Data: AWS (Lambda, S3, DynamoDB, Secrets Manager, EventBridge, Bedrock), SST, OpenSearch, Docker

AI: RAG and hybrid search, vector embeddings, reranking, LLM tooling and agent workflows

Ways of working: Git, CI/CD, Scrum, feature flags, technical documentation

EDUCATION

Software Engineering, Universidad Tecnológica Nacional (UTN FRC)

Feb 2019 – Present · Córdoba, Argentina

- 36 of 40 courses completed towards the degree.

English — Advanced (C1), British School

Feb 2019 – Dec 2023 · Córdoba, Argentina

- Cambridge CAE (Certificate of Advanced English), Grade B; FCE, Grade B; PET, pass with merit.

LANGUAGES & NATIONALITIES

Languages: Spanish (native), English (advanced, C1), Portuguese (conversational)

Nationalities: Argentine (residence), Italian (citizenship — EU work authorisation)