Joel Codja

Backend developer

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Summary

Backend developer, focused on API design and serverless edge architectures. Open to full-time backend roles and freelance work.

Experience

Lixali Studio lixalistudio.tech — Apr 2026 – Present
Backend developer

MakiSend github.com/lixalistudio-oss/makisend
Open-source transactional email API that runs on the client's own Cloudflare account and sends through their SMTP provider. Main backend developer (156 of 224 commits).

- Designed the asynchronous sending pipeline: the API answers 202 at once, then a durable Cloudflare Workflow delivers over SMTP with 3 retries 30 s apart and a dead-letter queue. 300 to 400 ms per send at best.
- Encrypted credentials, recipients, bodies and attachments with AES-256-GCM before they reach the database, and built key rotation that re-encrypts stored values by key id.
- Built the REST API in Hono with Zod validation, idempotency keys, per-key send quotas and an OpenAPI 3.1 reference generated from the same Zod schemas.
- Covered it with 400+ Vitest unit, integration and end-to-end tests, including a real SMTP server, run by GitHub Actions on every pull request.

TypeScript, Hono, Cloudflare Workers, D1, Queues, Workflows, Drizzle, Zod, Better Auth, Vitest

Projects

linkedin-scheduler github.com/cjdotdev/linkedin-scheduler
Open-source tool that publishes LinkedIn posts written in advance as Markdown files, through LinkedIn's official API. No server and no web interface: a folder, two scripts and a cron line.

- Never posts twice: a ledger, a publishing state and a lock between runs; `--check` proves the token and `--dry-run` shows what would go out.
- Renders 1080×1350 image cards from an HTML template, with highlighted code samples.

Python, cron, LinkedIn API, Node.js, Playwright, Shiki

Technical writing joelcodja.com/blog
Articles in English and French: AES-256-GCM encryption at rest in Node.js, validating API input with Zod, Drizzle ORM for TypeScript backends.

Skills

Languages	TypeScript, SQL, Python
APIs	Hono, Node.js, REST, OpenAPI, Scalar, Zod
Cloud and data	Cloudflare Workers, D1, Queues, Workflows, Drizzle, SQLite, PostgreSQL
Quality and delivery	Vitest, GitHub Actions, Docker

Languages

French (native), English (C1)