

Almendra Olivas Melendez

Senior Fullstack Engineer | TypeScript, React, Next.js, Node.js

Durango, Mexico | Remote (North America) | English (fluent), Spanish (native)

almendra.zn.olivas@gmail.com | github.com/enZane | portfolio.almendra-zn-olivas.workers.dev | linkedin.com/in/almendra-olivas

SUMMARY

Eight years fullstack, building product-facing systems end to end, Go and TypeScript on the backend, React and Next.js on the front. At Composabase I owned the GraphQL API surface, the React dashboard, and the Go services and provisioning behind it, working directly with enterprise customers to scope and ship integrations. I maintain open-source SDKs where API design, semantic versioning, and reviewable pull requests are the job, not an afterthought. I design before I build: written design documents, explicit trade-offs, smallest correct scope. Remote and async-first for eight years, North America time zones.

TECHNICAL SKILLS

Languages: Go, TypeScript (advanced), Rust, Python, SQL

Frontend: React, Next.js, TypeScript, styled-components, component-driven architecture, URL-encoded application state and routing, loading and error state design, performance profiling, accessible responsive layouts

Backend and APIs: Go services and infrastructure provisioning, Node.js, GraphQL schema design and resolvers, REST API design, server-side pagination, filtering and sorting, PostgreSQL, Redis, webhook delivery and retry semantics

Identity, Auth and Security: Enterprise identity integration (Okta, Auth0), authentication and session handling, policy-based authorization (Cerbos), least-privilege service accounts on GCP, secrets handling and credential rotation, OWASP Top Ten awareness in review

Systems and Data: Durable workflow execution (suspend/resume), distributed coordination via Postgres advisory locks, offline-tolerant client-server sync (Electric SQL), connector and extension architectures, multi-source schema mapping, legacy data migration planning

Open Source and Tooling: npm SDK authorship, semantic versioning and backwards compatibility, Turborepo and pnpm monorepos, PR-based code review workflows, design documents and RFDs, Google Cloud (Cloud Run, Cloud Build, Cloud Functions), Docker

AI Engineering: MCP server design, LLM tool-use orchestration, agent runtime architecture (Python), AI-generated UI

PROFESSIONAL EXPERIENCE

Co-Founder and Lead Engineer, Coyomi Labs (Eugen-ia) | 2025 - Present

Part-time, alongside full-time role at Octahedroid

- Building Eugen-ia, an operations platform that models a business's processes as executable BPMN workflows and gives operators live visibility into how those processes actually run.
- Own the full product lifecycle: scoping problems directly with the customer, writing the design document, implementing across backend and UI, testing, and documenting.
- Wrote the workflow execution engine as a pure TypeScript library, with durable suspend/resume, an explicit result contract, and XES-compatible event logs so every run is replayable and analyzable with standard process-mining tooling.
- Built the API and persistence layer: PostgreSQL-backed state, offline-tolerant client-server sync via Electric SQL, and distributed workflow coordination using Postgres advisory locks on GCP Cloud Run.
- Designed authentication and policy-based authorization across organizational roles, including approval gates that interrupt automated execution and require a human decision before an action proceeds.
- Built the operator-facing React interface, covering back-office and reporting views plus filtering and navigation over large process datasets, along with an agent layer (MCP server, LLM tool-use) that surfaces process state through a typed tool interface.
- Leading the first production deployment, replacing the CRM at a Mexican sustainability consulting firm: migration planning, legacy data mapping, and customizations designed with the client in the room, each shipped as a reusable extension.

Senior Fullstack Engineer, Octahedroid | 2021 - Present

Full-time

Composabase, Universal Data Integration Layer

- Wrote Go services for core business logic and infrastructure provisioning, programmatically standing up per-tenant GCP resources rather than configuring them by hand.
- Built a platform unifying heterogeneous data sources, including CMSS, internal client APIs, and databases, behind a single universal GraphQL layer, so content applications consume everything through one consistent schema.

- Designed the connector/extension architecture at the core of the product: every client-specific source or transformation shipped as a connector inside the system, so each one-off expanded the platform's integration surface instead of becoming bespoke debt.
- Owned GraphQL schema design, field mapping, and the transformation layer reconciling differing data shapes across 10 source systems into a coherent API.
- Built the React dashboard and the TypeScript and Python SDKs developers used to integrate, along with the supporting GCP infrastructure (Cloud Run, Cloud Build, Cloud Functions).
- Handled credential storage, per-source authentication, and least-privilege access for connectors reaching into customer-controlled systems.
- Scoped integrations directly with enterprise customers against their real source systems and constraints, translating requirements into designs before writing code.

Pantheon, decoupled-kit-js (Open Source)

- Core contributor to a Turborepo and pnpm monorepo of SDKs and starter kits bridging CMS backends to multiple frontend frameworks including Next.js, shipped as npm packages used in production worldwide.
- Managed API versioning, backwards compatibility, and cross-package dependencies so consuming teams could upgrade without breakage.

Drupal Decoupled, Open-Source Integration Starter

- Co-created a headless CMS integration starter on Next.js with ephemeral preview environments and content synchronization between the editing backend and decoupled frontends.

Enterprise Clients: Okta, Auth0, Databricks

- Delivered fullstack engineering embedded with client engineering teams, integrating identity providers and SSO flows into production applications and resolving authentication compatibility across their existing stacks.

Fullstack Developer, Magnus Software | 2018 - 2021

- Led the migration of a legacy PHP/Laravel monolith to a Vue and Nuxt decoupled architecture, covering incremental cutover planning, keeping the legacy system running alongside the new one, and designing the API layer that bridged both.
- Built fullstack applications for government clients on PostgreSQL, owning data modeling, API design, and UI end to end.

EDUCATION

Instituto Tecnológico de Durango | 2018 - 2022

Computer Systems Engineering coursework. Degree not completed; studied while working full-time as a software engineer.

COMMUNITY AND SPEAKING

- Founder, Tech Crafters, a depth-oriented developer community in Durango with over 100 members, where I mentor working and junior engineers through structured systems study and code review. Wrote a Discord-based curriculum of 29 systems challenges drawn from Designing Data-Intensive Applications and Database Internals, 18 coding exercises, and 5 incident post-mortem sessions (Cloudflare, GitHub, DynamoDB, GitLab).
- Cursor-sponsored AI development workshop, Durango, February 2026. Designed and taught hands-on AI-assisted development for 20 local engineers.
- Speaker, "The Five-Rung Ladder," a talk on AI coding maturity, framing how teams progress from autocomplete to delegated agent workflows.

LANGUAGES

English (fluent), Spanish (native)