

# GUSTAVO DELGADO

Valdivia, Chile | [gustavo.uach@gmail.com](mailto:gustavo.uach@gmail.com) | (+569) 92706499 | [Portfolio](#) | [Linkedin](#)

Senior Software Engineer | Product oriented | Full stack developer

1

Senior Full-Stack Engineer with 10+ years of experience building enterprise software across frontend, backend, and API layers. Proven track record delivering complex healthcare products, driving architectural decisions, modernizing applications, and working closely with cross-functional teams to bring ideas from concept to production.

## TECHNICAL SKILLS

**Architecture & Design:** System Design, API Design, Domain Modeling, Application Architecture

**Languages:** TypeScript, JavaScript, PHP, SQL

**Backend:** Node.js (Express, Nest), Laravel, REST APIs, TypeORM, Knex, MySQL

**Frontend:** Angular (NgRx, RxJS), React, MobX State Tree, HTML5, CSS3, Angular Material, Material-UI

**Tools & Platforms:** Azure (MSAL, SignalR), Docker, Git, AWS S3

## EXPERIENCE

### MANIFOLD GROUP

Software Engineer - Full Stack Developer

Remote

Mar 2016 - Present

#### Key Projects:

**Eat Purely Platform (Mobile + Web + Middleware) - Eat Purely**

**Laravel · PHP · TypeScript · MySQL · Shopify Admin/Storefront API · JWT · Routific · Luxon · AWS · Sentry**

- Led the design and implementation of a Laravel middleware platform connecting Shopify with Eat Purely's delivery operations, defining API contracts, domain models, authentication flows, delivery windows, and product synchronization consumed by web and mobile applications.
- Designed Shopify integration workflows including webhook processing, HMAC validation, order fulfillment, shipping validation, and Routific route scheduling.
- Drove the creation of shopify-ep-utils, a shared TypeScript business-rules library used by both Shopify and React Native applications, centralizing delivery availability, menu constraints, cart validation, and pre-order logic.
- Delivered operational tooling with Laravel Nova for delivery management, scheduling, monitoring, and routing workflows, improving reliability around fulfillment edge cases and delivery-window conflicts.
- Established a shared API and rules engine across web and mobile platforms, ensuring consistent ordering behavior while reducing duplicated business logic.

#### Care Pathways API - Kindred Healthcare

**Node.js · TypeScript · Express · TypeORM · FHIR · Azure · JWT · Angular**

- Extended a Node.js/TypeScript/Express backend with TypeORM + MSSQL, JWT authentication, and Azure Blob Storage for Kindred's post-acute care platform serving multiple rehabilitation facilities.
- Contributed to the SOAP/PinPoint to FHIR migration by implementing a FHIR Service layer, typed mappers, patient vitals, assessments, care notes endpoints, and 60-minute response caching.
- Implemented care notes ZIP upload and processing APIs while improving production reliability through SQL query optimizations, new vitals metrics, date-range filtering, and defect resolution.
- Extended the Angular Care Pathways client to support new REST endpoints and FHIR-based workflows across patient, vitals, assessments, and care notes features.

#### LinQ - LifePoint HealthCare Web Application

**Angular · TypeScript · RxJS · NgRx · Angular Material · MSAL · SignalR · Azure · REST**

- Led the architecture and development of the Relay web platform supporting referrals, Pre-Admission Screening (PAS), time logging, outpatient scheduling, and CRM workflows across multiple healthcare divisions.
- Defined frontend architecture, state management patterns, API integration strategies, and real-time collaboration workflows, integrating Azure AD (MSAL), SignalR, and LinQ REST services.
- Drove modernization initiatives including Angular upgrades, NgRx Store/Effects adoption, reusable application patterns, and scalability improvements across the platform.

## EDUCATION

**Universidad Austral de Chile:**

Bachelor's Degree in Computer Science)

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2

## SELECTED PROJECTS

### Hapital – Condominium Management Platform - 2023

**Node.js · Express · Knex · MySQL · Awilix · REST APIs**

- Co-led the creation of a condominium management platform, defining business workflows, data models, technology strategy, and system architecture.
- Designed and implemented a production REST API from scratch, establishing domain models, service boundaries, dependency-injection patterns, and transaction management strategies.
- Led technical execution across a small engineering team, coordinating development efforts and reviewing implementations.
- Deployed and maintained the platform in production, supporting condominium administration and common-expense management workflows.

### KimunChess – Chess Education Platform – 2024

**React · MobX State Tree · Material-UI · PHP · Phinx · Eloquent ORM · MySQL · REST APIs · chess.js · AWS S3**

- Designed and built end-to-end a multi-tenant chess education LMS, defining business workflows, domain models, technology strategy, and system architecture (organizations → course levels → modules → units → resources).
- Designed and implemented a production REST API from scratch on a custom microframework, establishing polymorphic content models, dependency injection, a PGN exercise engine with move validation, adaptive quiz generation, and role-based ACL.
- Built the React admin portal with MobX State Tree and Material-UI: curriculum authoring, PGN/video repository, participant management, messaging, progress reporting, and evaluation configuration, integrating 40+ REST endpoints.
- Deployed and maintained the platform in production (Apache, Docker, MySQL, AWS S3, Sentry), supporting student learning workflows (interactive board, quizzes, analytics) and institutional administration.