

# Fernando Mendoza

## Senior Teach Lead Engineer

IT Engineering

Hatchworks AI - Jan/15/2023

Senior technical lead engineer responsible for several software applications development with 8+ years of professional experience related to the following industries: EdTech, BPO & Business Process Management, eCommerce, Cyber Security, BI & Analytics.

Proficient in software architecture implementation (SAO), designing, and optimization. In charge of leading cross-functional teams, critical product maintenance, company IT services/products, close support to engineering projects, planning initiatives to achieve valuable benefits according to the company alignments, most related to technologies migration, scalability strategies, product performance improvements, software quality, platform efficiency, and customer experience.

### Technical Summary

- **Front end:** React, Angular, Javascript, NPM, Webpack, Atomic Design, Jest, react testing library, Micro Front-end, Cypress, mParticle
- **Back end:** .Net Core, Node, SOA, Microservices, GraphQL, API design, OpenAPI Spec documentation
- **Databases:** MongoDB, MS SQL Server, Postgres PL/PgSQL, Oracle, Redis
- **Code Quality:** Sonar Cloud, prettier, husky, git security checks, Code Linting, Testing Coverage, TDD
- **Cloud Computing:** AWS CloudFront/SNS/EC2/S3, GCP, Azure Blob Storage Service/Service Queue, rabbitMQ, Kafka
- **Monitoring and Observability:** Pagerduty, Datadog, Grafana
- **Solutions Architecture:** Services Modeling, HLD, LLD, Performance Optimization BE/FE, OWASP Threat Modeling, Domain Driven Design, Clean Architectures, EDD
- **Containerization:** Docker Compose, Helm, Terraform, Istio, Rancher
- **Systems Design:** Large Scale Systems Design, Load Balancing, Splunk, Communication Protocols (HTTP/2, netTCP, gRPC, Protocol Buffers), Traffic Analysis
- **Mobile:** Kotlin, React Native

## Experience Summary at Hatchworks AI

### ➤ Senior Full Stack Development Engineer:

MightyID Jan, 2024 – Now

- Designed, developed, and implemented a high-performance **disaster recovery platform** capable of handling millions of concurrent requests, enabling seamless backup and restoration for cloud-based identity and access management systems, including **Okta, Microsoft Entra, Auth0, and PingOne**.
- Architected a scalable solution for synchronizing and restoring multi-million objects such as users, groups, applications, policies, rules, and admin roles, utilizing highly efficient algorithms to identify and manage complex object associations (e.g., users in groups, groups in applications, policies tied to applications).
- Enhanced the reliability of backup and restoration workflows by introducing **rigorous, object-specific testing batteries**, ensuring stability across multiple workflows and varying object association scenarios.
- Engineered and developed key components for cross-provider object migration, implementing advanced transformation logic to align object equivalences and associations between diverse identity providers, enabling seamless portability of data.

### ➤ Senior Backend Development Engineer

Price Waterhouse Coopers, Jan 2023 - Jan 2024

- Optimization of the E-filing tax system of one of the Big Four
- Spearheaded the implementation of a new Event-Driven Architecture for a large-scale tax management services platform, seamlessly integrating third-party services while decoupling business layer components into Distributed Messaging Queue Services and Blob Storage Containers for E-Filing. The revamped architecture was successfully deployed in Q4 2023, adhering to the projected timeline and exceeding stakeholder expectations.
- Achieved a 50% performance improvement by reducing the total processing time for tax form queues from 3 minutes to 1.6 minutes through architectural optimization and strategic workflow redesign.

## Experience Summary at BairesDev

- **Redweek Inc** – Senior Back End Engineer (Contractor) - Nov 2022 - Jan 2023
  - Contribute to the development of back-end API services for a large-scale timeshare's platform, ensuring robustness, scalability, and high performance.
  - Support the integration of third-party APIs and services, streamlining data flow, and improving overall system functionality after the acquisition of a new business partner in aligning the operation and maintenance of the platform rental shares including hotels and resorts,
  - Develop integrated payment methods to allow customers to track their financial statements
- **Abra** – Lead Front end Engineer (Contractor) - Jan 2022 - Dec 2022
  - Lead and design the web version architecture of the existing mobile app
  - Optimize the increased multi-transactional requests, emphasizing the importance of core web vitals metrics, customer engagement, and privacy landscape
  - Implement atomic design in the new web platform developing an efficient components-based library
  - Provide and develop custom user engagement and satisfaction strategies, reflected in increased web app adoption and trading activities.
  - Developed and maintained React Native features for the mobile trading application
  - Refactored core mobile UI components using React Native's functional components and hooks
  - Implemented deep linking and push notification handling via React Navigation and Firebase Cloud Messaging (FCM)
  - Worked with native modules (Swift/Kotlin) when necessary, bridging React Native components for performance-critical features
- **Fabric Inc** – Senior Front end Engineer (Independent Contractor) - April 2021 - Jul 2022
  - Lead a seed project for three new customer-oriented applications in a micro-frontend e-commerce platform
  - Implement unit testing coverage from 0 to 80% FE web application
  - Coordinate the technical requirements to release a new Subscriptions application, that interacts with the rest of the headless eCommerce platform.
  - Guide and mentor junior/mid-level developers

- Facilitate technical review for the development task to be included in backlog refinement meetings
- **UVG** – Software Development Engineer (Full Time) - Jun 2016 - Apr 2021
  - Collaborate with the organization's strategic projects through the development of technological solutions
  - Provide technical support for software failures, conduct root cause analysis, and communicate recommendations
  - Maintain, develop, and improve data pipelines, ETL packages, night syncs, and more high-data demand processes
  - Prioritizes technical decisions based on product requirements, team skills, and resources

## Educational Summary

- **Del Valle University of Guatemala** – bachelor's in science, Computer Science (2019 - on going)