

LUIS OCTAVIO GARCIA GARCIA

Senior Software Engineer | Mechatronics Engineer



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LinkedIn

EXPERIENCE

Orium — Senior Software Engineer (Remote | Apr 2026 – Present)

- Designing and building, from day one, a high-scale loyalty engine to support 600K+ users with 15–20% monthly growth.
- Architected the system to absorb a full day-one data migration with no performance degradation.
- Built on Node.js / TypeScript with AWS (EKS, DynamoDB), event-driven messaging (SNS / SQS, BullMQ) and Terraform IaC.
- AI-augmented engineering: drove AI agents to accelerate implementation within strict architectural and specification boundaries, enforcing contracts, patterns and quality gates so AI-generated code stayed maintainable.

Gremti (Contractor) — Technical Lead (Tepic, Nay. | Dec 2025 – Feb 2026)

- MVP mobile app using React Native (TypeScript) with Atomic Design principles for a scalable and modular component architecture
- API with Node.js following Clean Architecture, using Repository and Dependency Injection patterns to achieve a maintainable and decoupled codebase.
- Serverless architecture, optimizing scalability and operational costs.
- Defined the full system architecture, patterns and business rules under a spec-driven approach.
- Engineered a custom AI-agent development harness to accelerate implementation, enforcing strict spec compliance across patterns, naming and business rules.
- Integrated AI agents as controlled contributors bound to the architecture I defined, achieving significant speed-ups while preserving architectural integrity.

Luxoft México – Senior Software Engineer (Guadalajara, Jal. | Apr 2024 – Sep 2025)

- Mobile development for streaming platforms using React Native (TS) & native components with Turbo Modules (Java, Obj-C).
- Features across Android, iOS, tvOS, AndroidTV, FireTV, Tizen, Kepler & Web.
- Mono-repo strategy, refactors, bug fixing, Jest/Junit for unit tests.
- Implemented New Relic & AWS Kinesis for logs, metrics & error monitoring.

Deloitte – Senior Full Stack Developer (Guadalajara, Jal. | Aug 2023 – Apr 2024)

- Led dev teams (MX/USI), ensuring requirement compliance.
- APIs with Spring Boot (microservices, MVC, DI) deployed on AWS.
- Web apps with React/Vue + TypeScript, Atomic Design & design patterns.

EDUCATION

Instituto Tecnológico de
Tepic
B.S. Mechatronics
Engineer

SOFT SKILLS

- Leadership
- Self-taught
- Conflict resolution
- Adaptability
- Creativity & problem solving

LANGUAGES

- TypeScript
- JavaScript
- Java
- PHP
- Swift
- Objective C & C#

KNOWLEDGE

- SQL & NoSQL Databases
- Docker & Linux
- Git (advanced)
- AWS and Vercel
- Unit tests
- CI/CD
- Integration tests
- System design
- Code quality control

AGILE & ARCHITECTURE

- TDD
- Scrum
- Kanban
- Clean architecture
- MVC
- Serverless
- Message Queue
- Database sharding
- Microservices

DESIGN PATTERNS

- Prototype
- Composite

Luxoft México — Full Stack Developer (Guadalajara, Jal. | Apr 2022 – May 2023)

- React Native app with TypeScript, Atomic Design and White Label architecture.
- Node.js API Rest to process and serve data, images, maps & geolocation for a precision technology agriculture app.
- Maintained Spring Boot REST APIs deployed on AWS.

Standard Cable – Production Planner (San Luis Potosí | May 2021 – Jan 2022)

- Managed product demand for Emerson ISE, Pentair, Electrolux & MABE.
- Planned supply chain (forecast, POs, safety stock).
- Automated planning & production process via custom software with React.

Tidingo — Full Stack Software Developer (Tepic, Nay. | Oct 2017 – Jan 2022)

- Web apps with Laravel (microservices, MVC).
- SQL database design & queries.
- Front-end with Vue.js & React Native.
- Built projects from scratch defining the codebase and best practices.

CICESE UT3 — Software Developer Intern (Tepic, Nay. | Aug 2016 – Mar 2017)

- Developed “Eye-tracking Painting” project with Unity and C#, integrating Tobii eye-tracking technology for people with motor disabilities.

PERSONAL PROJECTS

My Finances — Privacy-First Personal Finance App (Solo Author | 2025 – Present) · madebyluis.dev/en/projects/my-finances

- Architected and built a cross-platform mobile app (React Native / Expo, TypeScript) and a Node.js / Express + TypeScript REST API (Clean Architecture, Dependency Injection, MongoDB), deployed serverless on Vercel.
- Engineered end-to-end encryption with a zero-knowledge backend: client-side RSA-OAEP + AES-256-GCM with PBKDF2 key derivation and recovery keys, so the server only ever stores data it cannot read.
- Hardened the app with a custom native module (Kotlin / Swift) for root / jailbreak, debugger and emulator detection, plus iOS App Attest and Android Play Integrity app attestation.
- Implemented defense-in-depth security: biometrics, PIN, HMAC device-binding request signing, account locking, email verification, rate limiting and full audit logging.
- Built offline-first idempotent sync, Zod input validation, Swagger API docs and CI (CircleCI, Jest) under strict TypeScript.

HIGHLIGHTS

- Led cross-border teams delivering enterprise-grade applications.
- Designed and implemented environments for code quality control and best practices.
- Collaborated with clients to define requirements, timelines, and deliverables.

- Factory
- Builder
- Dependency injection
- Repository