André Rovira

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SUMMARY

Senior backend engineer with 7+ years of experience specializing in C#/.NET and Erlang/Elixir for high-concurrency distributed systems. At TigerConnect, building clinical messaging infrastructure serving 7,000+ healthcare organizations, healthcare interoperability integrations (FHIR, SCIM), and enterprise provisioning APIs on AWS. Ships end-to-end with a product-driven mindset, leveraging AI-assisted development to accelerate delivery. Track record across three regulated industries: healthcare, gaming, and financial services.

SKILLS

Core Languages: C# .NET, Erlang, Elixir

Frameworks & Protocols: .NET Web API, Entity Framework, Cowboy, Phoenix, LiveView, XMPP, FHIR, SCIM

Architecture: Distributed Systems, Microservices, Event-Driven, RESTful APIs, ETL, SSO, OAuth

Domains: Healthcare, Gaming / iGaming, Financial Services

Databases: PostgreSQL, MariaDB, Redis, ElastiCache, DynamoDB, CassandraDB, Oracle, Microsoft SQL Server

Cloud & Infrastructure: AWS (EC2, ECS, S3, Lambda, CloudWatch, Cognito, Secrets Manager, KMS, Bedrock, IAM), Docker, Terraform

Streaming & Messaging: Kafka, AWS MSK, SQS

CI/CD & Observability: GitHub Actions, Jenkins, ELK Stack, Feature Flags

Methodologies & Compliance: Test-Driven Development (TDD), Domain-Driven Design (DDD), Spec-Driven Development (SDD), Agile/Scrum, HIPAA

Tools: Git, Swagger, Postman, Shell Scripting (Bash/Zsh), JIRA, Confluence, OpsGenie

AI-Assisted Development: Claude Code, Cursor, OpenCode, AWS Bedrock

Languages: English (fluent), Spanish (native)

EXPERIENCE

Senior .NET / Erlang Software Engineer | TigerConnect
August 2023 – Present | Mexico City, Mexico (Remote)

- Developed and maintained the core Erlang/XMPP clinical messaging platform distributed across ECS nodes, backed by Cassandra, Redis, and ElastiCache, processing 10M+ messages daily and powering AI-driven clinical workflow orchestration for 7,000+ healthcare organizations.
- Architected a greenfield .NET provisioning service to replace user and organization modules from the Erlang monolith, keeping systems in sync through the adapter pattern and MSK event streaming, with RBAC and SCIM integration across 3+ enterprise identity providers (Ping, Entra, Okta).
- Independently implemented FHIR protocol integrations for Cerner (Oracle Health) and Epic, enabling seamless SSO embedding of TigerConnect within EHR platforms and unlocking a new market segment for clinical users.
- Implemented JWT signature and encryption for patient health information using AWS KMS with both asymmetric and symmetric keys, ensuring HIPAA-compliant token handling across internal APIs.
- Led weekly production deployments across 3 services and on-call rotations, managed feature flag rollouts, and drove trunk-based development practices with weekly release cadence.
- Mentored 2 junior developers and led peer code reviews across the platform team, driving code quality and knowledge sharing.
- Presented AI-assisted workflow automation integrating Atlassian MCP for accelerated documentation and architectural diagramming in platform-wide tech talks.

Backend Software Engineer | Dreidel
May 2022 – May 2023 | Mexico City, Mexico

- Decomposed a monolithic game server into 6 domain-driven microservices — math engine, game orchestrator, wallet (Sloth Accounting System), jackpots, printer, and bill validator — communicating via event-driven architecture with .NET and PostgreSQL.

- Reduced release coupling through service isolation, enabling independent deployments and accelerating feature delivery across teams.
- Migrated the spin generation engine to AWS, enabling integration with online casino platforms and expanding the product from 1,200+ physical gaming machines to web-based gaming.
- Developed RS-232 hardware integration DLLs in C#/.NET for thermal printers and bill validators, enabling real-time peripheral communication on electronic gaming machines.
- Engineered a per-island progressive jackpot system with integrated audit trails and event-driven monitoring.
- Achieved USA and Canada electronic gaming machine certifications, collaborating with the verification team in Las Vegas on compliance testing and validation.
- Automated deployment pipeline with Docker, replacing a manual hard-drive-based deployment process and enabling rapid, consistent releases across gaming machines.

Backend Software Engineer | Codix
January 2019 – May 2022 | Mexico City, Mexico

- Developed financial data interfaces for invoicing import/export compliant with tax authority regulations, processing high-volume transactions through spec-driven development.
- Engineered PL/SQL packages, triggers, and scripts in Oracle DB for financial data processing, ensuring data integrity across import/export operations.
- Provided 24/7 monitoring and support for production batch jobs and database cleanup scripts across client time zones, maintaining 99.9% on-time execution rate.
- Managed UNIX on-site servers including process monitoring, cronjob administration, and automation via shell scripting.
- Collaborated with a globally distributed team across 4 countries (Mexico, Tunisia, Vietnam, Bulgaria), including on-site training at company headquarters in Sofia.

PROJECTS

TerpSystem | terpsystem.com
Business Club Management System

- Created a multitenant SaaS platform serving 3 clubs and 10,000+ users, with role-based access control, a credits economy, and inventory tracking.
- Designed multi-role architecture (staff, members, administrators) with transaction-based resource allocation.

CardApp
Multitenant Credential Management Platform

- Architected a SaaS multitenant platform for on-demand credential generation across organizations — covering data and photo ingestion, printable file generation with QR validation, and persistent digital card verification.
- Designed tenant isolation, secure data handling, and end-to-end automated workflows from ingestion to delivery.

EnterpriseScheduler | github.com/AndreRovira/EnterpriseScheduler
Enterprise Meeting Scheduling API

- Built a scheduling API with timezone-aware conflict detection and automatic alternative slot suggestion, using clean layered architecture.
- Implemented full CI/CD pipeline with GitHub Actions enforcing 95% test coverage, format checks, and Docker-based infrastructure.

More at andrerovira.com

EDUCATION & CERTIFICATIONS

Bachelor's Degree in Mechatronics Engineering
Universidad La Salle | Mexico City, Mexico | 2018

AWS Certified Solutions Architect – Associate (SAA-C03) *(expected 2026)*