ANDREY SALAZAR GUZMÁN

Technical Development Lead | Full Stack Software Architect | .NET | React | SQL Server

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Professional Profile

Technical lead and software architect with over 10 years of experience in software development, nine of them leading development teams. Responsible for architecture, code review and code quality control with SonarQube, effort estimation, and guiding the team from requirements gathering through production deployment. Specialized in designing distributed applications with .NET and React, based on microservices, asynchronous messaging, Clean Architecture, CQRS and design patterns, backed by SQL Server, PostgreSQL and Oracle databases. Experienced in integrating third-party systems (telecommunications, banking, IVR telephony and smart metering) and in implementing observability with OpenTelemetry and Grafana. Knowledge of deploying solutions on Microsoft Azure (App Services, Azure Functions and Container Apps) and Docker containers. Author of .NET libraries for digital signatures and document editing published on NuGet. Certified Scrum Master.

Experience

NovusIT

Development Lead — 08/2021 - Present

Systems architecture, analysis and full stack development with .NET and React.

- Technical leadership of the development team: defining the architecture of each solution, assigning tasks, reviewing code and mentoring developers.
- Requirements gathering and analysis, user story writing and development time estimation with Scrum.
- Design and development of distributed applications with .NET, React, Node.js and Next.js, with version control in Git and Team Foundation Server.
- Integration of third-party systems via REST, SOAP and TCP sockets: telecommunications, banks, IVR telephony and smart metering.
- Implementation of observability with OpenTelemetry, Prometheus, Loki, Tempo, Grafana and Seq.
- Configuration and deployment of solutions on Microsoft Azure (App Services, Azure Functions, Container Apps, Azure DevOps and Pipelines) and in Docker containers.
- Data migration with Azure Data Factory.
- Technologies: Razor Pages, Blazor, .NET MAUI, React with TypeScript, Webpack, Web API with JWT, Dapper, Entity Framework, SignalR, RabbitMQ, Power BI Embedded, SSIS, SSRS, UWP, AWS S3, Azure Blob Storage, Android TV apps for STBs, SQL Server, Oracle, PostgreSQL, MongoDB and Cosmos DB.
- Projects led: telecommunications service provisioning platform, performance evaluation system, assembly system with real-time voting and a .NET MAUI mobile app, data migration for Fidélitas, Investment Management System (SIG CCSS), Integrated Pension System (SIP CCSS) and its migration, Integrated Support System for Jurisdictional Process Management (SIAGPJ) and National Notary Directorate (DNN).

GrupoMas

Technical Development Lead — 06/2017 - 09/2021

Analysis and full stack web development with .NET.

- Coordination of the technical team in requirements gathering, user story writing and time estimation with Scrum.
- Development of web applications with ASP.NET MVC, .NET Core, C#, TypeScript, Angular, Vue.js, jQuery, WCF and Web API, as well as progressive web apps with Ionic, Azure DevOps extensions and Windows services.
- Definition of the solution structure and the Git and Team Foundation Server workflow.
- Quality control of third-party developments and preparation of technical documentation and user manuals.
- Database analysis and design in SQL Server (versions 2008 to 2019).
- Projects led: National Notary Directorate (DNN), Baxter, Banco Nacional, Empaques MYL, Dole and Importadora Monge.

G2 Seguridad

Web Developer — 01/2016 - 05/2017

Web development, security and consulting, using agile methodology.

- Development of the company's websites and its security platform.
- Analysis and development of web applications with PHP, JavaScript, AJAX, AngularJS and jQuery on HTML5 and CSS3, as well as solutions in ScriptCase and Android Studio.
- Generation of graphical and query reports on MySQL and MariaDB.
- Handling and resolution of incidents in the company's IT systems.

Featured Projects

Telecommunications Service Provisioning Platform

Technical Lead and Architect — 04/2026 - Present

- Design of the orchestration for activation, modification and deactivation of fiber optic, IPTV, VoIP and 5G services, integrated via SOAP and REST with network, telephony and television platforms from multiple vendors, replacing a legacy gateway.
- Implementation of asynchronous processing with durable queues in Wolverine and RabbitMQ, with retries and auditing of every operation.
- Development of an API Gateway with YARP that authorizes each route based on token permissions (JWT and Microsoft Entra ID).
- Observability setup with Serilog and Seq for logs, and OpenTelemetry to Prometheus, Loki, Tempo and Grafana, with dashboards and alerts.

Signum: PAdES Digital Signatures for .NET

Author — Published on NuGet | Demo: apps.andreysg.site

- Signum.Pdf and Signum.Pdf.NetFramework: PAdES-B-LTA signing engine for PDF documents, with RFC 3161 timestamping, long-term validation (OCSP and CRL), deferred signing with smart cards and direct signing with a digital certificate.
- Signum.FirmaDigital: ASP.NET Core component with endpoints and a web modal (PDF viewer, signature box and certificate selection), integrated with the user's smart card through a local agent, with activation-key licensing.
- Signum.Pdf.Validator: offline validation of PDF signatures (signer and document integrity), compatible from .NET Framework 4.0 to .NET 10.

EditorOnline.Sdk

Author — Published on NuGet | Demo: apps.andreysg.site

- SDK for .NET 8, 9 and 10 that enables editing Word, Excel, PowerPoint, PDF documents and forms from the browser, with no installation on the user's machine.
- Editor deployed as a containerized service that delivers the document to the application's endpoint when the user saves.

Education

Fidélitas — San José, Costa Rica
Licentiate Degree in Computer Systems Engineering (in progress, final graduation project) — 05/2024 - Present

ULATINA — Guanacaste, Costa Rica
Bachelor's Degree in Systems Engineering — 12/2016

CECELO — Guanacaste, Costa Rica
High School Diploma — 12/2011

Technical Skills

Programming languages: C# | JavaScript | TypeScript | Python | Java | PHP | Go | PowerShell | Bash | SQL

Web technologies: HTML5 | CSS3 | SCSS/SASS | XML | JSON | REST | SOAP | GraphQL | WebSockets | TCP sockets | OpenAPI/Swagger | Scalar

Frontend frameworks and libraries:
React | Angular | Vue.js | Next.js | Preact Signals | Redux | Context API | React Hooks | Zustand | jQuery | Bootstrap | Tailwind CSS | Material UI | PrimeReact | Chakra UI | Styled Components | DataTables | AJAX | Webpack | Vite | ESBuild | NPM

Backend frameworks and libraries:
.NET 10 | .NET Core | .NET Framework | ASP.NET MVC | ASP.NET Web API | Entity Framework Core | Dapper | Dommel | Identity Framework | SignalR | YARP | Refit | Mapster | FluentValidation | BouncyCastle | PDFsharp | WCF | gRPC | Node.js | Express.js

Databases:
SQL Server | PostgreSQL | Oracle | MySQL | MariaDB | MongoDB | Cosmos DB | Redis | SQLite | Cassandra | Elasticsearch | SSIS | SSRS | Atlas (migrations) | SSDT

Messaging and caching: RabbitMQ | Wolverine | FusionCache

Security and identity:
JWT | OAuth 2.0 | OpenID Connect | Microsoft Entra ID | Zitadel | PAdES digital signatures | X.509 certificates | OCSP/CRL | RFC 3161 timestamping

Cloud and DevOps:
Azure (App Services, Functions, Container Apps, Data Factory, Blob Storage, DevOps, Pipelines) | AWS (S3, EC2, Lambda) | Docker | Docker Compose | Kubernetes | CI/CD | Git | GitLab | TFS | GitHub Actions | Jenkins | IIS | Nginx | SSL/TLS | SonarQube

Observability and testing:
OpenTelemetry | Grafana | Prometheus | Loki | Tempo | Seq | Serilog | Application Insights | Log4Net | NUnit | MSTest | React Testing Library

Architecture and patterns:
Distributed applications | Microservices | Clean Architecture | Hexagonal architecture | CQRS | DDD | Design patterns (GoF) | API Gateway | Asynchronous messaging | Layered architecture | MVC | MVVM | Repository Pattern | Unit of Work | Dependency injection | Serverless | SOA

Tools: Visual Studio | VS Code | Azure Data Studio | SSMS | Azure DevOps | Jira | Confluence | Figma | Git Extensions | Postman

UI/UX and mobile: MAUI | Blazor | Radzen | Razor Pages | PWA | Responsive design | UWP | Xamarin | Android Studio | React Native

Methodologies: Scrum (certified) | Agile | Kanban | DevOps | TDD | BDD | CI/CD

Soft Skills

Team leadership · Technical mentoring · Assertive communication · Problem solving · Project management · Teamwork · Analytical thinking · Attention to detail · Adaptability · Self-directed learning

Certifications

Scrum Master Certification — International Scrum Institute | April 2021

Languages

Spanish — Native ●●●●●

English — Intermediate ●●○○○