

Olaff Velazquez-Escalante

Software Engineer | Full-Stack .NET Developer

Holland, Michigan | (616) 298-0203 | olaffve@outlook.com | U.S. Permanent Resident | olaffve.com | github.com/olaffve | linkedin.com/in/olaffve

Professional Summary

Bilingual Software Engineer with 6+ years of professional experience building, modernizing, and supporting enterprise applications with C#, .NET, ASP.NET Web API, Angular, React, TypeScript, SQL Server, PostgreSQL, Kafka, Docker, Azure, and modern cloud technologies. Experienced in secure REST APIs, relational database optimization, high-volume processing services, legacy modernization, testing, and production support. Founder and Full-Stack Developer of Natly, a bilingual civic-education SaaS platform, and developer of VEO Coach, a youth soccer coaching platform with secure data access, live match management, and automated testing.

Technical Skills

Languages	C#, Java, TypeScript, JavaScript, SQL, HTML5, CSS3
Backend	.NET, ASP.NET Core, ASP.NET Web API, REST APIs, Entity Framework, Node.js, TypeScript server routes, J2EE, Spring, Struts, Servlets, JSP, JDBC
Frontend	Angular, React 19, Next.js App Router, vinext, Angular Material, DevExtreme, Fuse Angular, Tailwind CSS, Bootstrap, HTML5, CSS3, Vite 8
Data	SQL Server, PostgreSQL, MySQL, Liquibase, stored procedures, query optimization, ETL
Cloud & DevOps	Azure, Supabase (Auth, PostgreSQL, RLS), Google OAuth, Resend, Render, serverless technologies, Kafka, Docker, Git, Azure DevOps, GitHub Actions, GitLab, Bitbucket, CI/CD
Quality & Tools	xUnit, NSubstitute, Vitest, React Testing Library, Node.js test runner, integration testing, SonarQube, Splunk, Grafana, Postman, Jira, Agile/Scrum
AI Development	GitHub Copilot, ChatGPT, Cursor; human-reviewed code generation, testing, debugging, and documentation

Professional Experience

Natly

January 2026 - Present

Founder & Full-Stack Developer | Michigan / Remote

Bilingual civic-education SaaS platform helping Spanish-speaking immigrants prepare for U.S. naturalization.

- Lead product strategy, application architecture, UI/UX, and end-to-end development.
- Build quizzes, flashcards, study tools, and interview simulations with React, TypeScript, Tailwind CSS, and Vite.
- Design multilingual English/Spanish architecture, reusable components, automated tests, and a Supabase/serverless foundation.
- Create automated frontend tests with Vitest and React Testing Library; use analytics to understand product usage.

Enhesa

October 2022 - December 2025

Software Developer II | Williamsport, PA / Remote

Modernized RegScan and supported .NET, Angular, database, and Kafka services for regulatory-data workflows.

- Owned RBMD.JOB, a Kafka processing service, resolving bottlenecks and restart failures under high-volume payloads.
- Built C# simulation endpoints that removed local Kafka/Docker dependencies and reduced debugging from hours to minutes.
- Maintained and modernized applications using C#, .NET, ASP.NET Web API, Angular, Angular Material, DevExtreme, Fuse Angular, SQL Server, and PostgreSQL.

- Developed REST APIs, integrations, and database logic supporting evolving business requirements following the RegScan acquisition.
- Improved database performance through indexing, normalization, stored procedures, and SQL query optimization.
- Converted Figma designs into reusable Angular components and integrated shared Enhesa UI libraries.
- Implemented HttpOnly cookies, secure sessions, and backend-only access to sensitive data.
- Created unit and integration tests with xUnit and NSubstitute and delivered Liquibase migrations.
- Investigated production health with Splunk and Grafana while collaborating with Product, Security, and Engineering.

Earlier Experience

Technological University of Tecamac

September 2017 - September 2018

Jr. Full-Stack Developer - Java / C# / .NET | Tecamac, Mexico

Supported a centralized financial-reporting initiative across universities using different Java, .NET, MySQL, and SQL Server systems.

- Developed a centralized reporting solution integrating systems used by multiple technological universities.
- Built REST integration between Java Struts/J2EE applications and C# ASP.NET Web API services.
- Connected Angular HTTPClient services and implemented API-key, token, and CORS security controls.
- Developed Java modules with Servlets, JSP, Spring, JDBC, and Ajax, plus MySQL queries and stored procedures.
- Validated APIs using Postman and participated in requirements analysis, solution design, implementation planning, proofs of concept, and product reimplementations.

CA-Microsystems

September 2016 - September 2018

Software Engineering Developer | Mexico City, Mexico

Developed tax, financial, accounting, and administrative software for Mexican businesses.

- Developed and maintained MFU, a financial application used to calculate and report Mexican federal taxes.
- Built ETL processes for accounting data from Microsoft Dynamics, Oracle, SAP, and other client ERP systems.
- Partnered with clients to map source data, business rules, and ERP-specific extraction processes.
- Created SQL Server views, stored procedures, triggers, and database objects supporting tax calculations and reporting.
- Developed C#/.NET components using object-oriented design, Crystal Reports, and technical documentation.

Selected Project

VEO Coach | coach.olaffve.com

Youth soccer coaching platform for roster management, automatic formation-based lineup suggestions, live match timing and scoring, intelligent rotations, and coordinated assistant/manager access with database-level security.

- Build the frontend with React 19, TypeScript, and Next.js App Router on vinext (Next.js-compatible, built on Vite 8), with handcrafted plain CSS for light dashboard and dark match-mode themes.
- Implement internal TypeScript REST APIs under /api/v1/ using Next.js server routes; use Supabase PostgreSQL, Auth, and row-level security (RLS), Google OAuth, and Resend invitation emails.
- Host on Render (Node.js), with migration to Cloudflare Workers in progress; control manual deployments through GitHub Actions, without automatic deployment on push.
- Maintain 270+ automated tests using the native Node.js test runner.

Education

Technological University of Tecamac

Engineering Degree in Information and Communication Technologies | Tecamac, State of Mexico, Mexico

Languages

Spanish: Native | English: Professional working proficiency