

Yohan J. Rodríguez Viveros

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Profile / Interests

An adept Software Engineer since 2006, I bring over two decades of experience in pioneering software development across diverse platforms, including cutting-edge cloud services, APIs, and cross-platform applications. My professional journey is enriched by a profound passion for AI, fueled by deep interests in science and dedicated research. This motivation drives my exploration of AI's integration into innovative solutions. Beyond coding, my engagement extends to strategic chess and contributing to the tech community through writing, demonstrating a comprehensive commitment to technology's transformative potential.

Employment History

Senior Software Engineer

WaterStreet Company

Feb 2020 - Present / Remote



Senior Software Engineer at an insurance platform software company. Specialized in implementing a multi-component insurance platform, including a dynamic front-end, RESTful services, and a JSON-based configuration layer with embedded JavaScript and C# code. Responsibilities encompassed the development of scalable features, collaborative code integration, and the adoption of cutting-edge technologies for solving complex industry challenges.

Technologies & Languages: C#, SQL Server, Powershell Scripting, REST Api, Continuous Integration, Azure, Git, Visual Studio 2022, NUnit, LinqPad, Postman, Octopus, JetBrains suite, ReSharper

Developer IV

Tiempo Development

Sep 2015 - Feb 2020 / Hermosillo, Sonora



Full-Stack Developer focused on cybersecurity solutions, leading the development and ongoing enhancement of system features, product releases, and policy deployment. Expertise in providing customer support, creating comprehensive documentation, and managing platform infrastructure. Spearheads the development of build systems and the implementation of continuous integration processes to ensure software reliability and efficiency.

Technologies & Languages: C#, Lua Scripting, Python Scripting, SQL Server Back-End DB, Bash Scripting, Powershell Scripting, C for dynagents, WMI, Win32, WinForms, Windows Embedded, Linux, Unix, OSX, Multithreading, REST Api, SOAP Api, Network Programming, Distributed Computing, Gradle, Continuous Integration, OpenSSL, CyberArk, Password Authority, Git, Github, VSphere, VMWare, Visual Studio 2015, NUnit, Perforce

Full Time Ph.D Student / Researcher

Universidad de Sonora

May 2014 - Sep 2015 / Hermosillo, Sonora



Ph.D. Candidate specializing in high-performance computing, particularly in the development of efficient C++11 libraries for numerical methods applications, such as the Finite Difference Time-Domain (FDTD) Method. Responsibilities encompass the creation of both static and shared libraries optimized for performance, alongside configuring and managing Linux servers to support library deployment and execution.

Technologies & Languages: MySQL, Linux, C++ 11, Php, Perl, Bash, JQuery, Angular JS, Fabric.js, Matlab, Matematica, Gnuplot, Octave, Meep, OpenGL

Developer IV

Tiempo Development

Jun 2013 - May 2014 / Hermosillo, Sonora



Backend Developer for a Platform as a Service (PaaS) product leveraging Amazon AWS infrastructure. My role involves seamless integration of third-party services through API connections, meticulous bug resolution, and the design and testing of APIs to ensure robustness and reliability. I focus on creating efficient, scalable solutions that enhance the platform's functionality and user experience.

Technologies & Languages: VS 2012, Git, Mercurial, Amazon AWS, SQL Server 2012, MongoDB, LINQ, .Net Framework 4.5, Web API, REST Services, Powershell, Dependency Injection, Unity

Developer III

Tiempo Development

Oct 2008 - Jun 2013 / Hermosillo, Sonora



Versatile Developer with expertise in web, desktop, and API development across a range of projects, including applications and services both locally and in the cloud. Skilled in full lifecycle development, from system design through to the implementation of back-end and front-end services, ensuring cohesive, scalable solutions that meet complex requirements.

Technologies & Languages: Amazon AWS, SQL Server, MongoDB, Linq, .Net Framework, Web Api, Rest Services, Powershell, Unity, Entity Framework, Azure, WCF, MSBuild, WPF, Aspect Oriented Programming, Cloud Services, XBAP, C#, Visual Basic, JavaScript, Git, Mercurial, Team City, Nunit, Enterprise Library, MEF, Crystal Reports, TFS, StarTeam, Subversion, XamlPad, SVN, JQuery, Continuous Integration, Testing, Dependency Injection, MVC, MVVM, Scrum

Team Developer

Tesis Automation & IT (Neoris)

Apr 2008 - Oct 2008 / Monterrey, Nuevo León



Web Developer for a Geographical Information System (GIS) product, specializing in both back-end and front-end development. Responsibilities encompass crafting dynamic web pages featuring extensive geographical data visualizations through shapes, utilizing stored procedures, and managing XML data. Expert in integrating geographical controls to enhance data representation and interactivity on web platforms.

Technologies & Tools: MapXtreme 2008, SQL Server 2005, Visual Studio 2008, .Net Framework 2.0, Telerik Rad Controls Q1 2007, Tortoise-Subversion, Enterprise Library Ver 3.1 App Blocks, XML, Ajax Control Toolkit, T-SQL.

Traceability Engineer

Takata

Mar 2006 - Apr 2008 / Acuña, Coahuila



Traceability Engineer in a pioneering traceability project team, focusing on the development of software for industrial devices, alongside web and desktop applications, and embedded systems. Key responsibilities include the integration of system databases and data for enhanced traceability, as well as the setup and maintenance of IT network infrastructure and servers, ensuring seamless operation and reliability of tracking systems across devices.

Technologies & Tools: Visual Basic, C# .Net 1.1, 2.0, Ladder Programming, VB Script, View Script, JScript, ASP.Net, PHP, SQL Server 2000, Cimplicity, Proficy, Networking and PLC hardware installation

Languages

- Spanish - *Native*
- English - *Professional working proficiency*

Education

2011-2015 Ph.D. in Nanotechnology

Universidad de Sonora

Title: Received

2004-2007 Master's Degree in Computer and Information Sciences

Universidad Autónoma de Coahuila

Title: Received

1996-2002 Bachelor's Degree in Computer Science

Instituto Tecnológico de Piedras Negras

Title: Received

Publications

- [CMJM13] P. Castro-Garay, J. Manzanares-Martinez, Y. Jasdid Rodriguez-Viveros, and D. Moctezuma-Enriquez. Modeling the tuning of lasing in liquid crystal based one-dimensional photonic crystal using the finite difference time-domain method. In *APS March Meeting Abstracts*, page 1178, March 2013.
- [MECGRV⁺13] D. Moctezuma-Enriquez, P. Castro-Garay, Y. Rodriguez-Viveros, J. Manzanares-Martinez, and B. Manzanares-Martinez. Phoxonic band gaps in porous silicon multilayers at frequencies of the visible and hypersound. *Adv. Studies Theor. Phys.*, 7(19):907–914, June 2013.
- [MECGRVMM13] D. Moctezuma-Enriquez, P. Castro-Garay, Y. Rodriguez-Viveros, and J. Manzanares-Martinez. Modification of the radiation of a luminescent dye embedded in a finite one-dimensional photonic crystal. *Adv. Studies Theor. Phys.*, 7(15):707–716, April 2013.
- [MERVBMM⁺14] D. Moctezuma-Enriquez, Y. Rodriguez-Viveros, C. I. Ham-Rodriguez B. Manzanares-Martinez, E. Urrutia-Banuelos, and J. Manzanares-Martinez. Subwavelength mode conversion caused by bending in photonic waveguides. Working Paper, December 2014.
- [MERVMM⁺11] D. Moctezuma-Enriquez, Y. J. Rodriguez-Viveros, M. B. Manzanares-Martinez, P. Castro-Garay, E. Urrutia-Banuelos, and J. Manzanares-Martinez. Existence of a giant hypersonic elastic mirror in porous silicon superlattices. *Applied Physics Letters*, 99(171901), October 2011.
- [MERVMM⁺13] D. Moctezuma-Enriquez, Y. Rodriguez-Viveros, B. Manzanares-Martinez, C. I. Ham-Rodriguez, and J. Manzanares-Martinez. Experimental evidence of the non-transmission range enlargement in phononic heterostructures. *Adv. Studies Theor. Phys.*, 7(24):1195–1204, September 2013. ASTP.
- [MERVMM⁺15] D. Moctezuma-Enriquez, Y. Rodriguez-Viveros, B. Manzanares-Martinez, C. I. Ham-Rodriguez, and J. Manzanares-Martinez. All-optical diode based on the asymmetric propagation between subwavelength waveguides. Working Paper, April 2015.
- [MMMERV⁺12] J. Manzanares-Martinez, D. Moctezuma-Enriquez, Y. J. Rodriguez-Viveros, B. Manzanares-Martinez, and P. Castro-Garay. Non-perpendicular hypersonic and optical stop-bands in porous silicon multilayers. *Applied Physics Letters*, 101(261902), December 2012.

- [RM13] Yohan Rodríguez and Jesús Manzanares. *Simulación Computacional de Nanoestructuras con Meep: Técnicas, análisis y modelado computacional en Meep con el método (FDTD) (Spanish Edition)*. Editorial Académica Española, 2013.
- [Viv16] Yohan J. Rodríguez Viveros. *Simulación Computacional del Campo Electromagnético en Nanoestructuras: Análisis, simulación y diseño computacional de campos electromagnéticos utilizando el método FDTD (Spanish Edition)*. Editorial Académica Española, 2016.