

<b>Experience</b>	<p><b>Epicor Software Corporation</b>, Monterrey, Nuevo León, Mexico <b>Software Developer</b>, February 2017 - present. Custom Solutions Group, I mainly work on extending and adapting our base products to better fit the business requirements of customers in North and South America.</p> <ul style="list-style-type: none"><li>• Reduced execution time of mass update by 90% by porting business logic from client to server, and by porting database access from Entity Framework to stored procedures in T-SQL</li><li>• Highest billable utilization out of all engineers and architects of the Mexico CSG team in FY2019</li><li>• One of the top 10 employees of the Epicor Monterrey branch in Q4 2019</li><li>• Delivered the first mobile access dashboard solution of the Monterrey branch, a responsive HTML5 client with C#/.NET on the backend</li><li>• Developed 16 custom file formatters in C# for the ACH network and Positive Pay bank services</li><li>• Wrote T-SQL code generators in Python for data/schema definition and data querying</li><li>• Created 15 new forms/modules in C# for the Epicor ERP system version 10+</li><li>• Led engineers in upgrading multiple product customizations from Epicor 10.1 to 10.2</li></ul> <p><b>Infosys Ltd.</b>, Monterrey, Nuevo León, Mexico <b>Systems Engineer</b>, January 2013 to February 2015. Contractor for a Fortune 100 multinational banking and financial services corporation. Development, administration and support for a global trade finance application used mainly in North America and Asia</p> <ul style="list-style-type: none"><li>• Coded and tested new agents/batch-jobs and features in Java, C#, JavaScript and Windows Batch</li><li>• Fixed 350 incidents, including code bugs, development of new features and data fixes</li><li>• On-call primary contact for 20 weeks, leading 30 <i>Request For Change</i> procedures in Production</li></ul> <p><b>Self-employment, Freelance Consultant</b>. 2015-2017. Coached job applicants and students on computer science and software engineering topics.</p> <ul style="list-style-type: none"><li>• <a href="#">Published</a> implementations of data structures, algorithms, and solutions to programming problems</li></ul> <p><b>Center for the Development of the Software Industry</b>, Monterrey, Nuevo León, Mexico. <b>Software Engineer</b>, October 2012 to January 2013</p> <ul style="list-style-type: none"><li>• Performed testing and quality assurance of an enterprise financial Web platform for a Mexican bank, implemented in Java Enterprise Edition and JavaScript</li></ul> <p><b>School of Physics and Mathematics at UANL</b>, Monterrey, Nuevo León, Mexico <b>Research Assistant</b> (internship), August 2011 to February 2012</p> <ul style="list-style-type: none"><li>• Developed and maintained robust control systems software in Python, MATLAB and Simulink</li><li>• Co-authored one published paper: Basin, M.; Serna, M.; Lopez-Hernandez, P.I., <a href="#">Central energy-to-peak filter design for uncertain linear systems</a>, Control Conference (ASCC), June 2013</li></ul>
<b>Computer Skills</b>	<ul style="list-style-type: none"><li>• <b>Languages:</b> C#, JavaScript, TypeScript, LINQ, Python, Java, (T-)SQL, HTML, Bash/UNIX Shell Scripting</li><li>• <b>Data/Databases:</b> SQL Server, Oracle, XML, MySQL, SQLite, JSON, YAML</li><li>• <b>Technologies:</b> .NET 4.7.2, Entity Framework 6, LINQ to Entities, LINQ to XML, Infragistics, Epicor Internet Component Environment (ICE SDK &amp; ICE Tools), Java, Node.js, xUnit, Docker, Jekyll</li><li>• <b>Applications:</b> Vim, Visual Studio, Visual Studio Code, Git, LINQPad, Toad, Cygwin, OpenSSH, WSL</li><li>• <b>Operating Systems:</b> UNIX (Fedora, Red Hat Enterprise Linux), Windows (Server 2012, 10, 7, XP, Vista)</li><li>• <b>Patterns:</b> Promises, Async/Await, Reactor/Callbacks, Dependency Injection, Object-Relational Mapping (ORM), Module, Factory method, Iterator, Singleton</li></ul>
<b>Education</b>	<ul style="list-style-type: none"><li>• <b>Master of Information Engineering in Computer Science</b>, 2015, Autonomous University of Nuevo León. Overall Grade 94.5/100.0</li><li>• Bachelor of Engineering in Mechatronics, 2012, Autonomous University of Nuevo León, graduated with honors (<i>Mención Honorífica de Excelencia</i>), Overall Grade 95.9/100.0</li></ul>
<b>Projects</b>	<ul style="list-style-type: none"><li>• <b>LeetCode Solutions</b>, <a href="https://github.com/lopezpdvn/leetcode-solutions">https://github.com/lopezpdvn/leetcode-solutions</a></li><li>• <b>Code snippets</b>, <a href="https://github.com/lopezpdvn/snippets">https://github.com/lopezpdvn/snippets</a></li></ul>

