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| <https://github.com/lopezpdvn> | **Pedro Ivan Lopez** | [m@pedroivanlopez.com](mailto:m@pedroivanlopez.com) |
|  | [https://pedroivanlopez.com](https://pedroivanlopez.com/) | <https://www.linkedin.com/in/pedroivanlopez> |

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| **Experience** | **Epicor Software Corporation**, Monterrey, Nuevo León, Mexico **Senior Software Developer**, Feb 2017 - present. Custom Solutions Group, I work on extending & adapting our base products to better fit the business requirements of customers in North & South America.   * Implemented 5 medium to large integrations between ERP app servers in the cloud & a variety of third-party systems via OData (REST) v3 & v4. * Reduced execution time of mass update by 90% by porting business logic code from client to server, & by porting database access code from Entity Framework to stored procedures in native T-SQL * Highest billable utilization out of all the Mexico CSG team in FY2019, and top 10% in FY2021 * One of the top 10 employees of the Epicor Monterrey branch (all departments) in Q4 2019 * Delivered the 1st mobile dashboard solution of the Mexico branch, a responsive HTML5 client with C#/.NET on the backend * Developed 25 custom file formatters in C# for the ACH network & Positive Pay bank services * Wrote T-SQL code generators in Python 3 for data/schema definition & data querying * Created 15 new forms/modules in C# for the Epicor ERP system version 10+ * Managed total 6 engineers & architects in multiple projects in 2018 & 2019 (project management)   **Infosys Ltd.**, Monterrey, Nuevo León, Mexico  **Systems Engineer**, Jan 2013 to Feb 2015. Contractor for a Fortune 100 multinational banking & financial services corporation. Development, administration & support for a global trade finance application used mainly in North America & Asia   * Coded & tested 7 new agents/batch-jobs & features in Java, C#, JavaScript & Windows Batch * Fixed 350 incidents, including code bugs, development of new features & data fixes * On-call primary contact for 20 weeks, leading 30 *Request For Change* procedures in Production   **Self-employment**, **Freelance Consultant**. Feb 2015 to Dec 2016  Coached job applicants & students on computer science & software engineering topics.   * [Published](https://github.com/lopezpdvn) implementations of data structures, algorithms, & solutions to programming problems   **Center for the Development of the Software Industry**, Monterrey, Nuevo León, Mexico.  **Software Engineer**, Oct 2012 to Jan 2013   * Performed testing & quality assurance of an enterprise financial Web platform for a Mexican bank, implemented in Java Enterprise Edition & JavaScript   **School of Physics & Mathematics at UANL**, Monterrey, Nuevo León, Mexico  **Research Assistant** (internship), Aug 2011 to Feb 2012   * Developed & maintained robust control systems software in Python, MATLAB & Simulink * Co-authored one published paper: Basin, M.; Serna, M.; Lopez-Hernández, P.I., [*Central energy-to-peak filter design for uncertain linear systems*](http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=6606296&isnumber=6605987), Control Conference (ASCC), June 2013 |
| **Computer Skills** | * **Languages**: C#, JavaScript, TypeScript, LINQ, Python, Java, (T-)SQL, HTML, Bash/UNIX Shell Scripting * **Data/Databases**: SQL Server, Oracle, XML, JSON, MySQL, SQLite, YAML * **Technologies**: .NET 4.8, OData v3/v4 REST, WCF/RPC, Entity Framework 6, LINQ to Entities, LINQ to XML, Infragistics, Epicor Internet Component Environment (ICE SDK & ICE Tools), Java * **Applications**: Vim, Visual Studio, Visual Studio Code, Git, LINQPad, Toad, Cygwin, OpenSSH, WSL * **Operating Systems**: UNIX (Fedora, Red Hat Enterprise Linux), Windows (Server 2016, 10, 7, XP, Vista) |
| **Education** | * **Master of Information Engineering in Computer Science**, 2015, Autonomous University of Nuevo León. Overall Grade 94.5/100.0 * Bachelor of Engineering in Mechatronics, 2012, Autonomous University of Nuevo León, graduated with honors (*Mención Honorífica de Excelencia*), Overall Grade 95.9/100.0 |
| **Projects** | * **LeetCode Solutions**, <https://github.com/lopezpdvn/leetcode-solutions> * **Code snippets**, <https://github.com/lopezpdvn/snippets> |