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

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| **Experience** | **Epicor Software Corporation**, Monterrey, Nuevo León, Mexico **Software Developer**, 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.   * 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 * Delivered the first mobile access dashboard solution of the Monterrey branch, a responsive HTML5 client with C#/.NET on the backend * Developed 5 custom file formatters in C# for the ACH network and Positive Pay bank services * Wrote T-SQL code generators in Python for data/schema definition and data querying * Created 15 new forms/modules in C# for the Epicor ERP system version 10+ * Led engineers in upgrading multiple product customizations from Epicor 10.1 to 10.2   **Infosys Ltd**, Monterrey, Nuevo León, Mexico  **Systems Engineer**, 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   * Coded and tested new agents/batch-jobs and features in Java, C#, JavaScript and Windows Batch * Fixed 350 incidents, including code bugs, development of new features and data fixes * On-call primary contact for 20 weeks, leading 30 *Request For Change* procedures in Production   **Self-employment**, **Freelance Consultant**. 2015-2017.  Coached job applicants and students on computer science and software engineering topics.   * [Published](https://github.com/lopezpdvn) implementations of data structures, algorithms, and solutions to programming problems   **Center for the Development of the Software Industry**, Monterrey, Nuevo León, Mexico.  **Software Engineer**, October 2012 to January 2013   * Performed testing and quality assurance of an enterprise financial Web platform for a Mexican bank, implemented in Java Enterprise Edition and JavaScript   **School of Physics and Mathematics at UANL**, Monterrey, Nuevo León, Mexico  **Research Assistant** (internship), August 2011 to February 2012   * Developed and maintained robust control systems software in Python, MATLAB and Simulink * Co-authored one published paper: Basin, M.; Serna, M.; Lopez-Hernandez, 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, Python, LINQ, Java, (T-)SQL, HTML, Bash/UNIX Shell Scripting * **Data/Databases**: SQL Server, Oracle, MySQL, SQLite, JSON, YAML, XML * **Technologies**: .NET, Infragistics, Java, Node.js, xUnit, Docker, Spring, Hibernate, Jekyll * **Applications**: Vim, Visual Studio, Visual Studio Code, Git, Toad, Cygwin, OpenSSH * **Operating Systems**: UNIX (Fedora, Red Hat Enterprise Linux), Windows (Server 2003, XP, Vista, 7, 10) * **Design patterns**: Dependency Injection, Object-Relational Mapping (ORM), Module, Factory method, Iterator, Reactor, Singleton |
| **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** | * Software engineering problems in JavaScript <https://github.com/lopezpdvn/software-engineering-problems-javascript> * Data structures and algorithms in C#, <https://github.com/lopezpdvn/DataStructuresAlgorithmsCSharp> |