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| <https://github.com/lopezpdvn><http://pedroivanlopez.com/resume> | **Pedro I. Lopez** <http://pedroivanlopez.com> | +52 818 023 1545 [m@pedroivanlopez.com](mailto:m@pedroivanlopez.com) |

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| **Education** | * **Master of Information Engineering in Computer Science**, 2015, Autonomous University of Nuevo León. Overall Grade 94.5/100.0 * Bachelor in Mechatronics Engineering, 2012, Autonomous University of Nuevo León, graduated with honors (*Mención Honorífica de Excelencia*), Overall Grade 95.9/100.0 |
| **Experience** | **Self-employment**, **Freelance Consultant**. 2015-2016.  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   **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 team 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 * Designed and implemented a Windows Script Host script in JavaScript to retrieve scanned image and metadata files from the scanner workstations to our server and prepare for further processing * Fixed 350 incidents, including code bugs, development of new features, customers with invalid data in production and outages * On-call primary contact for 20 weeks * Led 30 Request For Change procedures to install code updates and to update data via SQL scripts * Supported production and test environments for clients and other teams in the bank     **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     **School of Mechanical and Electrical Engineering at UANL**, Monterrey, Nuevo León, Mexico  **Laboratory Assistant** (internship), February 2012 to August 2012   * Supported students in designing and troubleshooting programs in Python, MATLAB and LabVIEW |
| **Computer Skills** | * **Languages**: Python, JavaScript, C#, Java, SQL, HTML, CSS, Bash/UNIX Shell Scripting * **Data/Databases**: Microsoft SQL Server, Oracle, MySQL, SQLite, JSON, YAML, XML * **Applications**: Microsoft Visual Studio, Visual Studio Code, Git, Toad, Cygwin, Vim, OpenSSH * **Technologies**: .NET, Java, Node.js, xUnit, Docker, Spring, Hibernate, Jekyll, Sphinx documentation tools * **Operating Systems**: UNIX (Fedora, Ubuntu, Red Hat Enterprise Linux, Android), Microsoft Windows (Server 2003, XP, Vista, 7, 8, 10) * **Design patterns**: Dependency Injection, Object-Relational Mapping (ORM), Module, Factory method, Iterator, Reactor, Singleton, Observer |
| **Projects** | * ASPNET5CO: Advocacy and Community. Efforts to advocate the ASP.NET Core framework, <http://pedroivanlopez.com/aspnet5co> * Data structures and algorithms in C#, <https://github.com/lopezpdvn/DataStructuresAlgorithmsCSharp> * mazerob: Bluetooth-remote-control robot implemented with Java Virtual Machines on a PC and a Lego NXT Brick, <http://pedroivanlopez.com/mazerob> * printer73x: A computer numerical control system for printing binary images, <http://pedroivanlopez.com/printer73x> |