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 • Highest billable utilization out of all engineers and architects of the Mexico CSG team in FY2019 • One of the top 10 employees of the Epicor Monterrey branch in Q4 2019 • Delivered the first mobile access dashboard solution of the Monterrey branch, a responsive HTML5 client with C#/.NET on the backend • Developed 16 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 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*, 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, MySQL, SQLite, JSON, YAML • **Technologies**: .NET 4.7.2, Entity Framework 6, LINQ to Entities, LINQ to XML, Infragistics, Epicor Internet Component Environment (ICE SDK & ICE Tools), Java, Node.js, xUnit, Docker, Jekyll • **Applications**: Vim, Visual Studio, Visual Studio Code, Git, LINQPad, Toad, Cygwin, OpenSSH, WSL • **Operating Systems**: UNIX (Fedora, Red Hat Enterprise Linux), Windows (Server 2012, 10, 7, XP, Vista) • **Patterns**: Promises, Async/Await, Reactor/Callbacks, Dependency Injection, Object-Relational Mapping (ORM), Module, Factory method, Iterator, 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	• **LeetCode Solutions**, https://github.com/lopezpdvn/leetcode-solutions • **Code snippets**, https://github.com/lopezpdvn/snippets