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.

<u>Published</u> 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., <u>Central energy-to-peak</u> 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