

# Michael A. Silver

Driven, Experienced & Pragmatic Lead Software Engineer

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<https://cv.michaelsilver.us>

## AREAS OF EXPERTISE

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| <b>PRODUCT DEVELOPMENT</b>                | <ul style="list-style-type: none"><li>• Heavily involved in full life cycle development (SDLC), from business analysis to final release and support.</li><li>• Foster open work environment where team members are empowered to make decisions and offer opinions and critiques.</li><li>• Firmly believe in keeping development agile, stressing collaboration and iteration throughout the development process as well as code reviews and heavy unit testing.</li><li>• Ardent about learning new technology and understanding when and how it may be beneficial.</li><li>• Skillful at managing and meeting customer expectations.</li><li>• Excellent communication and people skills.</li><li>• Excellent analytical and troubleshooting skills, able to solve complex problems.</li></ul>   |
| <b>SOFTWARE DEVELOPMENT</b>               | <ul style="list-style-type: none"><li>• Comprehensive designing and implementation of high volume back-end processing systems.</li><li>• Prolific experience with web site creation and maintenance using Microsoft MVC, Razor Pages and Web Forms.</li><li>• Extensive design of database structures and relationships with Oracle, MS SQL Server, PostgreSQL, Informix, MySQL, MongoDB, Interbase and file-based formats such as SQLite, dBase, Access and Paradox.</li><li>• Routinely use message queues, including Oracle Advanced Queuing, Azure Service Bus and MSMQ.</li><li>• Familiar with current development methodologies, such as patterns, agile development, scrum, extreme programming, test driven development, domain driven development, unit testing, integration testing, etc.</li><li>• Experience with REST, SOAP and gRPC web services.</li><li>• Experience with Object to Relational Mappers (ORM) such as NHibernate or Dapper.</li><li>• Experience with dynamic proxies (Castle, Grace, etc), inversion of control (IOC) and dependency injection (DI).</li><li>• Experience with threads, sockets, and windows messaging.</li></ul> |
| <b>PROGRAMMING LANGUAGES / FRAMEWORKS</b> | <ul style="list-style-type: none"><li>• C# (Core, ASP.NET MVC, Web API, Web Forms, WCF) (14 years)</li><li>• Javascript (jQuery, TypeScript, Node.js) (10 years)</li><li>• Python (2 years)</li><li>• Delphi, including Pascal/Object Pascal (20+ years)</li><li>• SQL (20 years), including numerous variants such as PL-SQL</li><li>• HTML, CSS (Bootstrap) (20 years)</li><li>• C, C++, Ruby (Ruby on Rails), Perl, VBScript, PHP (~1 year)</li></ul>   |

## WORK EXPERIENCE

<b>Wolters Kluwer May 2018 to current (Remote)</b>	<b>Senior Product Software Engineer</b> Manage different teams of programmers on a per project basis. Primarily work on the Electronic Filing Center (EFC) team. Responsible for a large message queue based back end, distributed system, processing millions of tax returns every year. Team is responsible for numerous additional products, including customer facing web applications, to console apps, to libraries and web APIs. Security advocate for team. Attend training seminars and have responsibility for scanning and remediation planning for dozens of products for security, license and operational risks and reporting our security exposure and progress to our Vice President. C#, Oracle, SQL Server, ASP.NET, Azure, messaging, Javascript, HTML, CSS, XML	<b>Kennesaw, GA</b>
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NCR Corporation May 2010 to May 2018 (Remote)	<u>Professional Services Manager</u> Supervised remote programmers, including mentoring, code reviews and assignments of tasks. Designed, developed and maintained network protocol software to manage over 56,000 retail self checkout machines and 700,000 additional devices at the largest retailer in the world. Designed and implemented complex communication and queuing software. Converted highly complex back end from Delphi to C#, including threaded code, raw socket communication, encryption and compression. Made extensive use of unit testing. Maintained seven different web sites and a windows application used by numerous internal teams including support staff and over 2,000 on-site Customer Engineers. Introduced a standardized work flow, including Git, code reviews, task management, etc. C#, SQL Server, Delphi, ASP.NET, Javascript, HTML, CSS, XML	<u>Rome, GA / Bentonville, AR</u>
Wolters Kluwer formerly Universal Tax Systems Jun 2002 to May 2010	<u>Senior Level Developer</u> Worked on commercial tax preparation software product for professionals. Began conversion from Delphi to C#. Converted back end processing code from Delphi to C# and legacy communications protocols to web services using WCF as well as NHibernate and Oracle queues. Responsible for mentoring junior level programmers and performing design and code reviews. C#, Delphi, Oracle, VB.NET, ASP.NET, HTML, CSS, SQLite	<u>Rome, GA</u>
Freelance Consultant May 1994 to current	<u>Owner/Consultant</u> Wrote agent and web service to inventory and download concert tickets from the largest online ticket provider using Node.js, Python, MongoDB and PostgreSQL on Linux virtual machines created with Vagrant, running in VirtualBox. Wrote SSL encrypted website to track community tennis matches using ASP.NET MVC, Amazon S3, and PostgreSQL. Allowed for end user score entry and automated rankings. Created food and nutrition web site using ASP.NET Core, PostgreSQL and Dapper running on Linux. Wrote, from scratch, a windows application for an Employee Assistance company to track their clients. C#, Javascript, Node.js, .NET Core, Python, Vagrant, Delphi, Perl, D, PostgreSQL, SQL Server, MySQL, SQLite, WordPress, HTML, CSS, LINUX, FreeBSD	<u>Columbia, SC &amp; Rome, GA</u>
Xpress Software Jun 2001 to Mar 2002	<u>Windows and Web Developer</u> Developed object-oriented client/server commercial software for use by tax professionals. Also developed web site based on the same set of business classes, greatly reducing time-to-market. While designing Xpress's first Windows based tax preparation software for the year 2002, Xpress was purchased by a competitor who does not use Delphi. Delphi, Interbase	<u>Columbia, SC</u>

*Additional work history available at <https://cv.michaelsilver.us>*

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## EDUCATION

University of Georgia	Bachelor of Arts, Psychology Major, August 1992. Dean's List Twice (Spring 1990, Summer 1991). Secretary and President of fraternity, 1990 & 1991. Numerous computer science classes.
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