David M. Stephens

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Who Am I?

Software Engineer - Full-stack engineer with extensive professional experience in C#, Java, JavaScript, and SQL. Also knowledgeable with several other markup languages, scripting languages and frameworks.

Team Management - High EQ engineering team manager that excels in mentoring, coaching, and leadership. Additional skills in team building, interviewing, hiring, and technical planning.

Communication - Excellent verbal and written communication skills for working with stakeholders, clients, customers, and project teams. Also capable of producing technical documentation.

Architecture - Deep understanding of how large-scale client/server projects go together and how to elegantly solve engineering problems following best practices.

REST APIs - Knowledge of how to design and implement APIs for powering both web pages and mobile apps.

Cloud - Over 10 years of experience creating and deploying software to the Azure cloud. Skills are transferable to other cloud platforms such as AWS and GCP.

Database - Skills in schema design and queries for SQL databases for several database platforms. Also capable of designing documents big data stores.

Strong Work Ethic - Self-motivated problem solver and manager that get things done even with changing goals and moving targets.

Hobby Projects - I code for a living, but I also work on hobby projects involving coding and learning new technologies.

Fast Learner - Capable of quickly learning new patterns, programming languages, and subject matter terminology.

Recent Experience

Cogstate Limited - New Haven, CT   02/2016 — 08/2024
Principal Software Engineer
C# | Azure | APIs | SQL Server | JavaScript | React | Angular | CosmosDB
- Managed multiple teams of developers and worked closely with adjacent teams such as quality assurance and project management.
- Developed multiple web applications as a full stack engineer. These ranged from small API wrappers to full scale cloud-based platforms with clients that communicate with the server through APIs and were backed by both SQL and document store databases.
- Created an event transmission system using CosmosDB as the data store. This project handled communication between several systems in a way that was resilient against outages and allowed data to be eventually consistent.
- Was the team lead on a partially outsourced project that created an Android/iOS app. I guided the project design and created the API server back-end and the associated data model used by the phone apps.

Housing Systems Solutions - Cheshire, CT   09/2013 — 01/2016
Senior Software Engineer
C# | Azure | APIs | SQL Server | TypeScript | MVC | Kendo | jQuery
- Refactored the server code base to be asynchronous for improved performance and scalability. Used dependency injection to support unit testing using mocking.
- Improved logging to help development operations to identify production issues.

Allscripts Corporation - Farmington, CT   08/2008 — 08/2013
Senior Software Engineer
C# | IIS | SQL Server | ASP.NET | jQuery
- Created a database driven dynamic web form generation tool. It handled both form definitions and data saved into them.
- Developed a jQuery based web service system that allowed large pages to appear essentially instantly and load new content only when required by either clicking of scrolling.
- Designed custom ASP control tags that allowed display of multiple levels of detail for related information. Server driven data allowed customization of details in each row and level of detail.
- Made a page data filter system that automated filter query generation based on web form fields. XML filter information was stored in the database and supported multiple filter sets per user per page.
- Created a means of keeping servers in UTC while handling flexible time zones for clients no matter where they are and eliminated issues caused by server clock differences between the web server and the database server.
- Optimized database stored procedures and reduced database round trips.

Older Experience

IPT, LLC - Hartford, CT   07/2005 — 08/2008
Senior Software Engineer
Java | JSP | JavaScript | Oracle | ISS
- Refactored the entire code base to implement a better security model and to reduce special value visibility and injection.

- Created a powerful reverse auction platform that was used to greatly improve business profitability. It also allowed the identification of areas where the company was paying higher prices so they could be bid on again to find better vendors.
- Implemented a source control system to replace the existing shared drive approach. It was run on FreeBSD and CVS and had scheduled automated backups.

Hunt, Leibert, Chester & Jacobson, PC. - Hartford, CT   11/2003 — 06/2005
Software Engineer
Java | PHP | ASP.NET | C# | MySQL | SQL Server
- Developed several database driven web applications and stand-alone utility applications.
- Created a phone audit system that used the phone system and could identify misuse. Used a database replication scheme that removed load from the phone system and sped up requests.
- Build a system for tracking who was using the file barcode scanner to save time trying to find the device when it went missing.
- Made a vacation calendar system for human resources that allowed vacations to be requested, approved, and displayed on a single company-wide calendar with employee hierarchy to limit viewing permissions.

Computer Sciences Corporation - East Hartford, CT   04/2001 — 07/2003
Computer Scientist / Programmer Analyst
Java | JSP | Java Servlets | JavaScript | DB2 | Tomcat
- Worked on large-scale insurance/financial web applications. Performed full-stack engineering work that included the creation, design, and maintenance of several databases.
- Created a utility application that automated creation of images, which saved hundreds of hours of work when rebranding. This activity took people weeks to redo and my tool reduced that to around one minute.
- Helped create an XML based design document system that allowed business analysts to create a single document that could be used to produce both human-friendly documentation and the new pages they described.
- Reviewed and refactored code produced by an off-shore development team.

Genaissance Pharmaceuticals - New Haven, CT   11/2000 — 03/2001
Associate Software Engineer
Java | Oracle
- Developed and enhanced applications used in genetic analysis and for detecting possible gene based drug interactions. These systems were written in Java and used Oracle databases.
- Created a tool to help visually link sections of sequenced DNA. It allowed easy identification of gaps and sorted segments that made sense in those gaps.

Circle.com Incorporated - Wilton, CT   05/2000 — 11/2000
Associate Software Engineer
Perl | JavaScript | Oracle | Solaris
- Developed a client specific web interface for providing access to a CVS version control repository. It allowed typical source control activities such as file listing, traversing of directories, checkout of files, and commits with notes.
- Worked on shopping cart systems and bulk email systems with click tracking and statistics viewing for corporate clients.
- Developed database backed software on Sun workstations running Solaris.

IBM Corporation - Poughkeepsie, NY   05/1999 — 05/2000
Software Developer
Java | DB2 | BASIC
- Migrated important mainframe documentation from GML to HTML for the web. Created a stand alone tool for automating the process. Produced both frame based and index based navigation versions.
- Developed DB2 database tools.

Education

Post University - Waterbury, CT   2010 — 2013
Degree: Bachelor of Science — Computer Science
Focus: Game Development
- Returned to college to complete my degree.
- Maintained a 4.00 GPA.

Marist College - Poughkeepsie, NY   1996 — 2000
Major: Computer Science
Minor: Studio Art