Jeffrey Koch

Senior Software Developer

Los Angeles, CA
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https://github.com/jrkoch

Areas of Expertise

Twelve years of professional experience developing, profiling, and improving web applications using C# and ASP.NET, including MVC, WebAPI, Web Forms, WCF, and related technologies. Extensive experience with modern JavaScript development and front-end build pipelines. Highly skilled at T-SQL data modeling and designing, implementing, and performance-tuning SQL Server databases.

Development Experience

Netgnix, LLC – Lead Front-End Developer (Jan 2017-Present)

- Led development of the Netgnix consumer-facing web portal to present users with their genomic data and analyses. Created several integrated single-page applications to present to users for different use cases.
- Defined team coding standards and practices and established the front-end technology stack.
- Instituted peer code review and weekly technology talks to increase code quality.
- Participated in the hiring process by vetting resumes and interviewing candidates.
- Worked closely with the product team in an agile environment to plan sprints and estimate tasks.

Los Angeles Unified School District – .NET Developer (Nov 2015-Present)

.NET Developer focusing on creating new functionality and maintaining legacy code.

- Enforced an emphasis on code quality with peer code reviews and regular code surveys. Responsible for technical review and sign-off of contractor-written code. Reviewed in-development projects from other teams and recommended best-practice code patterns and architecture. Regularly presented advanced development techniques to team and mentored others in new technologies.
- Modernized legacy applications that allowed school administrators to quickly schedule students into classes. Reimplemented Silverlight applications with HTML5/JavaScript (React/Redux) front ends, improving compatibility and maintainability and better meeting school users' needs.
- Architected and implemented new modules for data administration and APIs for interfacing with external systems, including school calendar customization, transcript extract for the University of California to determine admissions criteria, and the Parent Portal to allow students' parents insight into learning progress.
- Identified, analyzed, and fixed data inconsistencies in student records. Developed safe-guards to prevent similar inconsistencies in the future.

CoStar Group, Inc – Senior .NET Developer (Jan 2015-Aug 2015)

Senior Full-Stack Developer working on a cross-functional agile team developing CoStar Group's greenfield apartments.com project. As my team was one of seven nationally that worked on the high-traffic site, it was critical to follow modern and established enterprise best-practices.

- Specialized as my team's go-to for development of maintainable high-performance JavaScript.
- Developed Alerts functionality to deliver relevant search results to users and increase business.

- Utilized design patterns such as Asynchronous Module Definition, Dependency Injection, and service-oriented architecture.
- Leveraged modern .NET technologies such as ASP.NET MVC5, RESTful WebApi, and async/await.

xRM.com – Senior Developer (2003-Dec 2014)

Worked on xRM.com internal projects and consulting in both agency development and staff-augmentation engagements.

- **Los Angeles Unified School District (2012-2014)**
  Senior Software Developer contracted to assist in the development efforts of the school district's Student Information System.
  - Designed and implemented key components of the system, including all modules related to students' grades: assignment tracking, transcripts, and GPA calculations.
  - Acted as liaison between performance testing and development groups to identify, diagnose, prioritize, and correct non-performant code.
  - Worked closely with QA, Subject Matter Experts, and Business Analysts on a fast-paced cross-functional agile team.
- **xRM.com Document Repository (2011-2012)**
  Designed and implemented a solution that solved business needs to automatically generate documents and track electronic signatures on Statements of Work for upcoming development projects.
  - Integrated third-party APIs including DocuSign, Microsoft Dynamics CRM, and Microsoft SharePoint to track work tasks and estimates and generate customer-friendly documents.
- **Retirement Plan Advisory Group (2004-2011)**
  Lead development efforts to create a suite of customer-facing applications related to employee-sponsored 401(k) and 403(b) plans.
  - Responsible for requirement gathering and planning/estimating of tasks. Oversaw rapid development cycles with multiple releases per week.
  - Decreased 401(k) plan Request for Proposal turnaround time from several days to a few hours with a web-portal that allowed customized responses from multiple planned vendors to clients' unique situations.
  - Integrated analytic data on plan vendors and individual investments, displayed in generated Microsoft Office documents and PDFs as user-friendly charts and tables.
  - Simplified plan document delivery to client plan sponsors and independent plan advisors through a highly customized front-end to Microsoft SharePoint.

Technical Skills

- **Front-End:** JavaScript/ES6, LESS, CSS, Bootstrap, React, Redux, Knockout, Underscore, npm, Webpack
- **Middle tier:** C#, ASP.NET, ASP.NET Core, MVC, WebAPI, Entity Framework, Dapper, AutoMapper, Unity, NInject, Moq, NUnit

- **Back-end:** SQL Server 2012-2016, SQL Server Profiler, Data-tier Applications
- **Miscellaneous:** TFS, git, Visual Studio, Visual Studio Code, Visual Studio Unit Test Framework, SQL Server Management Studio, SQL Server Data Tools, Nuget, npm, node

Education

Bachelors of Science, Physics. University of California, San Diego (2009).

Recent Trainings and Certifications

- ITIL Foundation – Global Knowledge, April 2017.
- SQL Server Reporting Services Workshop – Microsoft, March 2017.
- SQL Server 2016 New Features – Microsoft, March 2017.
- SQL Server Performance Tuning – Microsoft, February 2017.
- SQL Server Hands-on Troubleshooting – Microsoft, November 2016.
- Visual Studio ALM: TFS Essentials – Microsoft, May 2016.