

CHRYSTAL SANDER - SOFTWARE ENGINEER

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PROFESSIONAL SUMMARY

Experienced Software Engineer with a strong background in web, backend, database, API, and distributed application development. Extensive experience developing secure, data-driven solutions in financial services, healthcare, telecommunications, and small-business environments. Experienced throughout the software development lifecycle, including design, development, testing, debugging, deployment, and technical analysis.

TECHNICAL SKILLS

Languages & Frameworks: C#, .NET, ASP.NET, .NET Core, MVC, LINQ, JavaScript, Blazor

Web & APIs: REST, SOAP, Web Services, WCF, API development, XML, JSON, Microservices, SOA

Databases & Data: SQL Server, Oracle, SQL, ETL, Splunk, data conversion, relational databases, object storage

Cloud & DevOps: Azure, AWS, Azure DevOps, Jenkins, Docker, CI/CD

Development Practices: Agile, TDD, unit testing, automated testing, debugging, SDLC

Security: Application security, API security, vulnerability assessment, penetration testing, OWASP, PCI DSS, GDPR, HIPAA

PROFESSIONAL EXPERIENCE

11/2021 – Present : ApexTech Enterprises, LLC — Software Developer Consultant

- Develop and maintain web applications using C#, .NET Core, ASP.NET, MVC, JavaScript, CSS, and content management systems.
- Develop and maintain databases, perform data analysis, and create business intelligence reports.
- Perform cybersecurity analysis and vulnerability assessments of web applications and recommend mitigation strategies.

12/2013 – 10/2021 : Mastercard International — Senior Software Engineer

- Developed and supported secure, data-driven applications and payment-processing solutions for financial institutions, merchants, and other business partners.
- Designed, developed, tested, and maintained applications using C#, .NET, ASP.NET, React, Redux, Blazor, SQL Server, Azure, and AWS.

- Developed and maintained REST and SOAP APIs, web services, and distributed applications.
- Modernized legacy C# / ASP.NET applications and migrated functionality to newer technologies including React.
- Developed automated and unit tests using Test-Driven Development and Azure DevOps.
- Identified and mitigated application vulnerabilities including SQL injection, authentication and session-management issues, and business-logic vulnerabilities.
- Led development of a distributed object-storage solution for unstructured data using private-cloud infrastructure and S3-compatible storage.
- Developed data-processing and publishing solutions using ETL, batch processing, Jenkins, and Azure DevOps.
- Developed and maintained international location and geocoding systems supporting ATM and sales data.
- Participated throughout the software development lifecycle, including requirements analysis, design, development, testing, troubleshooting, and implementation.

05/2010 – 12/2013 : Charter Communications — Software Developer II

- Developed, maintained, and monitored web services using C#, XML, SOAP, WCF, SQL Server, and Oracle via agile development, iteration planning, task estimation, testing, and implementation.

09/2006 – 12/2009 : Independent Software Developer / Contractor

- Developed event-management and emergency-response software solutions using .NET, SharePoint, and Microsoft Synchronization Framework.
- Delivered solutions for Microsoft, the Bill & Melinda Gates Foundation, and nationwide events.

08/2001 – 09/2006 : Mercy Health Systems — Programmer / Analyst

- Developed database applications, SQL functions, stored procedures, ETL processes, reports, and data conversions using SQL Server and Oracle.
- Supported healthcare applications and data while working within regulatory requirements.

ADDITIONAL EXPERIENCE & TRAINING

- Microsoft Certified: Azure Fundamentals
- Co-inventor, U.S. Patent 10,885,054 B2 — Tracking Metadata Changes in Multiple Data Stores and Generating Alerts for Detected Data Impacts
- Hackathons, technical mentoring, Girls 4 Tech, STEM instructor, TryHackMe, and Junior Achievement