
TECHNICAL SKILLS

Programming languages (proficient): C#/.NET, T-SQL, JavaScript/TypeScript, HTML, CSS

Data technologies: SQL Server, Azure Storage, Azure Cosmos DB, Azure Data Explorer (Kusto)

Cloud computing: Azure – Storage, Service Bus, Search, SQL, Websites, Functions, ARM, VMs

WORK EXPERIENCE

Principal Software Engineering Manager

Jun. 2021 – present

Microsoft Corp. – NuGet, Visual Studio team

- Oversaw day-to-day operations of nuget.org as the engineering manager and technical lead
- Designed, implemented, and drove adoption of a NuGet package metadata analyzer (github.com/NuGet/Insights)
- Collaborated with a partner package repository to design and begin implementation of a unified package platform

Software Engineer I, II, Senior Software Engineer

Oct. 2015 – Jun. 2021

Microsoft Corp. – NuGet, Visual Studio team

- Drove nuget.org response for the “dependency confusion” package management attack
- Optimized validation and publishing pipelines to nuget.org, improving ingestion time by ~50%
- Designed and implemented a re-architected nuget.org package search using Azure Search, measured success
- Helped design and implement package signature validation on nuget.org and designed repository signing
- Documented NuGet HTTP protocol for public facing documentation website, enabling custom NuGet software
- Designed and helped implement asynchronous validation of packages
- Drove nuget.org redesign website to be fully accessible and have a fresh look
- Implemented .NET Standard framework compatibilities in NuGet client

Software Engineer I

May 2014 – Oct. 2015

Microsoft Corp. – Commerce Platform

- Maintained and improved paginated event store built on .NET and SQL Server
- Implemented generic REST endpoint which allows callers to efficiently poll for resource changes
- Implemented notification system built on .NET, SQL Server, and Azure Service Bus

Software Development Engineer Intern

May – Aug. 2013

Microsoft Corp. – Commerce Platform

- Worked on the order management system for Microsoft’s internal commerce platform

Applications Developer Intern

Jan. – May 2013

Space Exploration Technologies Corp. – IT

- Designed and developed an in-browser tool to edit sensor calibration files for the flight software (C# + MVC 4)

Software Development Engineer in Test (SDET) Intern

Mar. – Jun. 2012

Microsoft Corp. – Blend, Visual Studio team

- Wrote and debugged automated test cases in C# for Blend for Visual Studio (formerly Expression Blend)

Development Intern

Spring 2011, Fall 2011

Seapine Software, Inc.

- Worked on developing multi-platform bug tracking software in C++

Engineering Intern

Summer 2008, Summer 2009

ShareThis, Inc.

- Designed, developed, and deployed the ShareThis Firefox add-on (nearly 250,000 users)
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EDUCATION

B.S. in Computer Science

Sep. 2009 – May 2014

University of Cincinnati (Cincinnati, Ohio)

- Dean’s list with **3.850 GPA**
- Completed a **Math Minor**