Jeffrey M. Tyson

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Experience

Microsoft Corporation - Gateways & Connectors
Full-stack software engineer   *Redmond, WA*
                                                                                    2016–Present

- Pioneered the use of Kanban on the team to ship on-time, quality work
- Increased team productivity by making numerous improvements to the build system
- Worked with large and small customers directly to fix problems and better understand our customer
- Shipped an entirely re-architected personal gateway

  - Re-wrote Power BI settings web page (Angular-based) to support the old and new gateway simultaneously
  - Modified our existing backend to support the new gateway
  - Created installer, configurator, local service executable, and necessary build infrastructure
  - Used data-driven approach with telemetry to ensure end-to-end product quality
  - Seamlessly migrated thousands of customers in production without down-time
  - Saved our organization *significant* amounts of money per-month in COGS

Microsoft Corporation - Power BI
Backend software engineer   *Redmond, WA*
                                                                                    2012–2016

- Shipped an entirely new gateway experience for the Power BI cloud service
- Architected a user-friendly installer for Personal and Enterprise gateway using C# and WiX
- Responsible for the end-to-end process of shipping the Enterprise Gateway
- Implemented the secure Enterprise Gateway backup and restore scenario

Microsoft Corporation - SQL Analysis Services
Software development engineer in test   *Redmond, WA*
                                                                                    2011–2012

- Automated test development in C#, and Powershell of SQL Server Analysis Services
- Tested the DAX over Multi-dimensional feature, a major customer ask
- Shipped new versions of the SQL Server 2012, and 2014 box product

Volunteer Experience

Post-Computer Science Advanced Placement – Holy Names Academy
Lead volunteer teacher   *Seattle, WA*
                                                                                    2016–Present

- Developed curriculum to teach Computer Science and Software Engineering in a time-constrained environment
- Lead coordination efforts to ensure our curriculum was effectively delivered to 100 students

202 West Olympic Place Home Owners Association
President   *Seattle, WA*
                                                                                    2016–Present

- Worked with homeowners, property management, and contractors to keep building in good shape

Introduction to Computer Science – Various Seattle area schools
Lead volunteer teacher   *Seattle, WA*
                                                                                    2011–2016

- Created entire semester-long self-paced Intro CS class using Moodle and *Snap!*
- Co-authored book on teaching Intro CS used by hundreds of classrooms in 33 states for ten-of-thousands of students

Publications and News Articles

Tealsk12.org – Intro to Computer Science GitBook
Co-author   *Seattle, WA*
                                                                                    2015

- https://tealsk12.gitbooks.io/introduction-to-computer-science/content

Interview with CNN
Interviewee   *Seattle, WA*
                                                                                    2013

- https://edition.cnn.com/2013/05/14/tech/innovation/computer-science-teals

Darkening the Heart of Phantom
Author   *Seattle, WA*
                                                                                    2011

- Paper on GitHub: https://goo.gl/MFoS4F

University of California, Santa Barbara — *Santa Barbara, CA*
- Master of Computer Science — *2009–2011*
  Project: Expanding the *Phantom* Anonymous Communication Protocol

Michigan Technological University — *Houghton, MI*
- B.S. majoring in Computer Science with Mathematics Minor — *2004–2008*
- B.S. majoring in Computer Networking & Systems Administration

- Received first degree black belt in Shorinji Ryu Karate