



## Daniel Perry

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Address and phone number available upon request

### Profile

Highly skilled Software Engineer with a proven track record of contributing to complex projects at Microsoft. Leveraging a background in both software development and testing, I have played a pivotal role in enhancing product quality, streamlining development processes, and optimizing infrastructure. My experience ranges from optimizing build pipelines to orchestrating cloud-based solutions, all while fostering collaboration within cross-functional teams.

### Experience

#### **MICROSOFT, SOFTWARE DEVELOPMENT ENGINEER (SDE I-II) – 2014-2021**

Worked on an internal service that provided pull request validation for the Windows repository in an Azure DevOps build pipeline. Validation involved isolating the user's changes from the rest of the Windows codebase changes, producing bootable media with the changes, running tests on the image, and making the build logs & images available for users to download.

Challenges involved managing the machine infrastructure that ran the builds, starting with on premises bare-metal servers which then transitioned to private cloud machines using a shared infrastructure. Other challenges include inventing and validating logic to reuse build outputs from prior builds to reduce build times, and creating & managing Azure infrastructure to handle on demand orchestration of builds and management of build artifacts.

Used primarily C#, with supporting languages and tech to manage the build and build pipelines: YAML, Azure (Storage, Service Bus, Cosmos DB, Functions, SQL, Application Insights) and Windows management tools (CMD, PowerShell, SysInternals)

#### **MICROSOFT, SOFTWARE DEVELOPMENT ENGINEER IN TEST (SDET I) – 2013-2014**

Worked as part of the Windows Kernel Group. Designed, debugged and executed tests to validate Windows being brought up on ARM64. Wrote extensive documentation for new engineers on how to set up hardware, providing instructions on how to run tests to validate driver stability. Used C, C++, and assembly (x86\_64 and ARM64).

### Education

**DigiPen Institute of Technology** – Bachelor of Science in Computer Science in Real-Time Interactive Simulation, 2009-2013

## Skills

### TECHNICAL SKILLS

**Programming Languages:** Proficient in C, C++, C# and assembly (x86\_64 and ARM64), enabling effective software development, debugging, and testing across diverse platforms.

**DevOps Tools:** Extensive experience with Azure DevOps, including building and managing build pipelines, orchestrating builds, and managing build artifacts.

**Cloud Infrastructure:** Skilled in designing and managing Azure infrastructure, enabling on-demand orchestration of builds, scalability, and efficient resource allocation.

**Version Control:** Expertise in using Git and Perforce for version control, facilitating collaborative development and efficient code management.

**Automation:** Strong background in creating automation scripts and tools to streamline processes, enhance efficiency, and reduce manual intervention.

**Build Optimization:** Demonstrated ability to optimize build times by implementing strategies such as reusing build outputs, contributing to enhanced development efficiency.

**Testing and QA:** Proficient in writing and executing complex tests, ensuring software stability and robustness. Skilled in documenting testing procedures and hardware setup for reproducible results.

**Debugging:** Proven ability to analyze and debug software and hardware issues, utilizing a combination of tools and programming languages.

### SOFT SKILLS

**Problem-Solving:** Adept at identifying challenges, brainstorming innovative solutions, and implementing effective strategies to overcome technical hurdles.

**Collaboration:** Skilled in working within cross-functional teams, fostering open communication, knowledge sharing, and a unified approach to achieving project goals.

**Adaptability:** Proven track record of thriving in dynamic and complex environments, quickly adapting to changing requirements, technologies, and industry trends.

**Innovation:** Continuously seek opportunities to introduce new technologies and best practices, driving continuous improvement and staying ahead of the curve.

**Communication:** Strong written communication skills, effectively conveying technical concepts, hurdles and solutions to both technical and non-technical stakeholders.

**Attention to Detail:** Meticulous in ensuring code quality, accurate documentation, and thorough testing to deliver high-quality software products.