Jeff Morgan,
Software Developer

Profile

- 5 years of professional C++ programming experience for the United States Air Force and Microsoft.
- Passionate about C/C++, Google Go, Agile Software Development, and Test-Driven Development.
- Exceptional interpersonal skills honed in military and as a bartender.

Skills

- Languages: C++/C (5 years), Go (2 years), Python
- Developer Skills: Test-Driven Development, C++ template meta-programming, design patterns, compiler theory.
- Tools: Sublime Text 3, Visual Studio, googlemock, Cygwin, Premake, Mercurial, Git, SVN, Perforce.

Experience

HLSL BACK-END COMPILER DEV (SDE), MICROSOFT, REDMOND, WA -- 2013 - PRESENT
I work with C++ to optimize Microsoft's High-Level Shading Language (HLSL), a programming language that talks to the GPU for programmers and is used in everything from video games to web browsers to rendering to a computer screen. This is a very demanding job which demands a high level of knowledge pertaining to data structures, computer architecture, compiler theory, and optimization techniques. During my time at Microsoft I have developed four forward facing developer tools (which haven't been released yet) while designing and maintaining the build system for our team. I have constantly tried to introduce open-source tools and Agile software methodologies to my team here at Microsoft, because I am a firm believer that strong software engineering practices pay for themselves--over the course of a software project.

COMPUTER PROGRAMMER (3C0X2), UNITED STATES AIR FORCE, TINKER AFB -- 2010 - 2013
As a computer programmer in the United States Air Force (USAF), I worked with C++, Visual Basic, and SQL in-order to maintain mission-critical system in high stress, deployed environments where failure was not an option. In this role I wrote, tested, and deployed software--thoroughly and quickly--to supply jets in combat zones with updates that they needed to fly safe missions. I first started using Test-Driven Development (TDD) during this time, as it helped me to write tests and check interfaces with customers, quickly. During this time, I held a Top Secret TS/SCI security clearance and worked with classified intelligence to ensure mission success, while deploying to hostile combat zones, twice.

BARTENDER, VETERAN'S OF FOREIGN WARS POST #2995, REDMOND, WA -- 2010- 2013
While going to school, I worked nights as a bartender where I served drinks and conversations to veterans who have deployed overseas. As a bartender, I maintained the safety and enjoyment of my patrons while being cognizant of everything going on in the bar.   Often the only bartender on duty, I would cook/serve food orders, make drinks, refill spent kegs, clean tables, and monitor patrons to make sure that everyone had good, safe fun. I learned a lot of soft skills in this role, which help me as a programmer to this day.

Education
DIGIPEN INSTITUTE OF TECHNOLOGY, REDMOND, WA -- BS CS, 2013