

SKILLS SUMMARY

- Professional experience prototyping, profiling and seeing projects through conception to completion
- Friendly, confident, out-going and reliable; embraces challenge
- Working experience with C++, C#, Java, JavaScript, CSS, Delphi, Flex, Perl
- Hobby and academic experience with Arduino, Teensy, soldering, ARM, VHDL, Verilog, Assembly
- Experienced using Adobe Photoshop, Adobe Premiere, Corel Draw and discussing designs with customers

WORK EXPERIENCE

Code Connect

Co-founder

Jan '14 - present

Waterloo, ON and remotely

- Creates interactive programming environment for C# developers, enterprises and educators
- Builds Visual Studio extensions using Roslyn compiler, TDD, MVVM and async patterns
- Addresses performance issues to ensure best UX when software executes complex operations
- Takes promotional videos, designs marketing material, banners and business cards

Amazon.com

Software Development Engineering intern

Sept - Dec '13

Seattle, WA

- Developed front end and back end of feature that changed capabilities of the ordering pipeline
- Designed new user interfaces and evaluated their usage patterns using paper and digital prototypes
- Adhered to constraints and upheld highest security standards to ensure correct billing

Sandvine

Software Engineering Co-op

Sept - Dec '12

Waterloo, ON

- Developed an ActionScript framework for exporting spreadsheets from third party Flex components
- Contributed to development of a code editor and associated parser using JavaCC
- Effectively worked with geographically distributed teams under tight deadlines during product release

Schlumberger Information Solutions

Software Engineer

Jan - Apr '12

Stavanger, Norway

- Designed and developed WPF interface to control lights in three dimensions (Patent US20120254781)
- Created and implemented a novel approach to visualization of seismic data (Patent US20130235696), allowing for higher quality, fully interactive and real time rendering of geological features in 3D
- Built software prototypes for working with novel input devices

Schlumberger Water Services

Software Developer

May - Aug '11

Waterloo, ON

- Redesigned and implemented user interface for improved user experience of a commercial application
- Investigated bottlenecks in the code; optimized application's performance and responsiveness

EDUCATION

University of Waterloo

September '09 ' April '14

Bachelor of Applied Science, Honors **Computer Engineering** with **cognitive science minor** and distinction.

Relevant courses: Operating systems, Computer architecture, Compilers, Database systems, Adaptive algorithms, Intro to linguistics, Cognitive processes, Intro to cognitive science, User centered design methods

PROJECTS

Video blog: Raspberry Pi Smart Mirror - [Coding with Amadeus on youtube.com](http://youtube.com) 2015 - current

- Video blog of building Smart Mirror for Windows 10 running on Raspberry Pi

Elizabeth Malara's gallery - malara.ca 2015

- Artist portfolio built with custom Jekyll templates

Source Browser - sourcebrowser.io 2014

- Turns GitHub repositories into interactive source reference
- Built with ASP.MVC, uses Roslyn compiler and Lucene library.

Aurora, Philips Ambilight clone - [video at http://amadeusw.com](http://amadeusw.com) 2013

- Designed and built a lighting system casting realtime colors from the computer screen
- Wrote GUI and I/O in C# and image processing algorithm in C++/CLI
- Built with a custom-cut and drilled sheet of acrylic; Driven by an Arduino

YouDJ 2013

- Developed Windows 8 app that manages playlists and smoothly transitions between YouTube songs.
- Won the Microsoft Hackaton at Canadian Undergraduate Software Engineering Conference.

INTERESTS

- Rock climbing, reading, cooking, snowboarding and playing volleyball
- Cognition and neuroscience, and their applications in computer science
- Design, art, homemade hardware and software projects around the world
- Video game modifications - created maps and engine mods for Jedi Knight, a Quake III engine based game.

ACHIEVEMENTS

- Microsoft MVP 2016
- Patents US20120254781 and US20130235696

Visit my LinkedIn profile for unabridged work experience at <http://ca.linkedin.com/in/amadeusamadeus/>