

Summary of Software Development Experience

Professionally, I've developed compiler tools for various languages including Java, COBOL and C#. I have had to quickly learn new programming languages, either to write a compiler for, to develop new software in, or to maintain and refactor existing software.

Academically, I was offered a peer tutor position at the CEGEP level for my strong performance in mathematics, science and English. I've placed 1st in a competition for writing optimizations for a compiler for a Java-like language, and was generally recognized by at least five university professors as having gone above and beyond the course requirements.

As for personal projects, I wrote a web application in PHP/MySQL with over 3500 users worldwide, as well as an open source role playing game engine in Java (details below).

I can:

- Learn new programming languages or APIs very quickly;
- Develop commercial grade web applications in PHP, SQL, ASP.NET, HTML and CSS;
- Develop commercial grade applications in Java, C#;
- Write documents in XML, and manipulate them using XSD, XSLT, XPath, XQuery;
- Document code/design using JavaDoc, Microsoft Word, Microsoft Visio, HTML, or any other tool.

Significant Accomplishments

In the Field of Compilers:

- Wrote an LL(k) grammar for COBOL from scratch.
- Developed algorithms for GOTO elimination in COBOL.
- Placed first among 13 entries for an optimizing compiler competition, (Sun's "javac" compiler, which was submitted as a baseline entry to compare against, placed 4th)

Getting Work Done Under Time Constraints:

- Learned enough COBOL to write a COBOL compiler in 16 hours.
 - Learned enough VBScript and the Windows Script Host engine to convert an Excel VB for Applications macro into a standalone script with additional functionality in half a day.
 - Learned enough ASP.NET to develop distributed web apps to be deployed across public colleges in Washington in about a day (prior experience with PHP allowed me to be aware of typical security issues such as SQL injection and cross site scripting attacks).
 - Learned enough XSD in a few hours to write a meta-schema describing schemas.
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Personal Projects

JTBRPG

- JTBRPG is an open source role playing game engine written in Java. It is mentioned in Andrew Davison's "Killer Game Programming in Java" (ISBN 0596007302). More information and screenshots can be seen at <http://jtbrpg.sourceforge.net/>

NNR

- NNR is a web application written from scratch in PHP and MySQL. It accumulated over 3500 users worldwide (from Canada to Japan) solely by word of mouth before ownership of the site was transferred.

Work History

Programmer	Castor Technologies, Montreal, PQ	April 2005 – Present
Customer Service	EC Support, Montreal, PQ	Summer of 2001
Waiter	Bill Wong Restaurant, Montreal, PQ	Summer of 2000

Education

Bachelor of Computer Science	McGill University, Montreal, PQ	2001 – 2005
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