

# Mark Hutchinson

Software Developer

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## TECHNICAL SKILLS SUMMARY

**Programming Languages:** Java, AS3, C++, C, PHP

**XML and Web Services:** XML, XML Schema, WSDL, SOAP, DOM, SAX, REST, JSON

**Web:** Apache Tomcat, HTML, CSS, JSPs, Java Servlets, MySQL, JavaScript

**Development Tools:** CVS, Git, Mercurial, JUnit, Eclipse, Visual Studio, Rational Application Developer

**Concepts:** Object Oriented Programming, Design Patterns, User Interfaces, Concurrency, Eclipse

Plug-in Development, Software Development Processes (Agile), Web Development

## PROFESSIONAL EXPERIENCE

**Senior Software Engineer, FarmVille 2**  
Zynga, San Francisco, California

Jan. 2012 – Present

- FarmVille 2 launched in September 2012 and became the top game on Facebook, with more than 9 million daily active users
- Mentored developers, estimated development costs for new features, managed developer project allocation as “pod lead” of 4-5 software engineers
- Lead the development of large projects such as the “County Fair” competitive leaderboard feature, and the “first time user experience” tutorial where I created a much-reused scriptable tutorial system. Delivered these challenging multi-month projects on time
- Developed reusable features for FarmVille 2 in ActionScript and PHP

**Software Engineer, FarmVille 2**  
Zynga, San Francisco, California

August 2011 – January 2012

- Developed many core systems for FarmVille 2 before launch including: animal artificial intelligence behaviors and state machine, parts and crew system for buildings, and “farm helpers” social feature using ActionScript and PHP
- Worked closely with artists, UI designers, game designers, product managers and other software engineers to deliver highly polished and delightful game features on time

**Software Developer**  
IBM Canada, Markham, Ontario, Canada

July 2008 – July 2011

- Designed, implemented and tested enhancements for XML and Web Service tools in several Rational Application Developer (RAD) and Eclipse Web Tools Platform (WTP) releases
- Added support for generating Java EE 6 Web Service Applications on WebSphere Application Server 8. Refactored and rewrote Web Service Annotation Validators to improve performance and extensibility. Evaluated suitability of a Generic Web Service Client developed by IBM France for inclusion in RAD and worked closely with IBM France to integrate this component into RAD
- Acted as team focal point for performance (execution time and memory usage). Designed and executed performance tests. Profiled code to find improvements. Delivered performance improvements
- Responsible for Internationalization and Localization, Functional Test Planning, and migrating source code from CVS to Rational Team Concert
- Responded to customer issues raised by support team promptly with detailed answers or defect fixes

## INTERNSHIP EXPERIENCE

### Lossless Compression Software Designer

September 2007 – December 2007

Slipstream Data (a subsidiary of Research In Motion),  
Waterloo, Ontario, Canada

- Researched methods for lossless compression of various file types
- Prototyped and tested compression algorithms in C and reported on results

### Software Developer

January 2007 - April 2007

IBM Canada, Markham, Ontario, Canada

May 2006 - August 2006

- Reported and fixed defects in IBM Rational Application Developer (RAD) and the Eclipse Web Tools Platform (WTP)
- Developed suite of JUnit test cases for new Web Service components in RAD
- Developed JUnit tests for a web application utilizing open source HttpUnit testing tool
- Created and promoted internal project to be used as shared repository of WSDL and XML Schema test resources
- Ran manual function test and smoke test scenarios

### J2ME Developer

September 2005 - December 2005

Tira Wireless, Toronto , Ontario, Canada

- Used Tira's Jump Developer Desktop to port J2ME applications to many portable devices
- Resolved porting difficulties such as: memory usage limitations, screen size, jar size limitations

### Software Developer

January 2005 - April 2005

IBM Canada, Markham, Ontario, Canada

- Contributed to the open source Eclipse Web Tools Platform (WTP)
- Implemented enhancements such as real-time validation error highlighting in XML, XML Schema Definition and Web Services Description Language (WSDL) editors
- Reported and corrected bugs using Bugzilla
- Wrote tutorial style articles for Eclipse website

## EDUCATION

### Bachelor of Computer Science

University of Waterloo, Waterloo, Ontario, Canada

- Minored in Political Science
- Graduated in May 2008 with a fourth year GPA of 82.2%
- Transcript available upon request