

# Jonathan Neufeld, B.Sc.

Vancouver, BC, Canada  
Day Ph: 778-837-9533

Web site: <http://www.extollit.com>

**OBJECTIVE:** To share knowledge and experience in a new empowering environment taking ownership of a senior-level software development role

## STRENGTHS:

- Tenacious and patient
- Creative use of technology
- Analytical, abstract thinker, highly technical
- Strong leadership and communication skills
- Varried development background
  - 10 years experience writing Java applications, some experience working with J2EE
  - Experience writing 2D and 3D video games
  - Have worked overseas writing security and administration software for a non-profit
  - Passion for developing high-performance and low footprint software
  - Rich appreciation for object-oriented design patterns
  - Experience building software for embedded systems (Palm)
  - Proficient in JavaScript but also in C++ and Assembly language

## EDUCATION:

*Bachelor of Science (B.Sc.)*                      Trinity Western University, Langley                      1997-2003

**Major: Computer Science**                      **Minor: Business Administration**

Computer Networking & Distributed Systems, Operating Systems Concepts, Embedded Systems, Software Engineering Fundamentals, Artificial Intelligence, Organizational Behavior and Management, Marketing Concepts

*\* Transcripts available upon request*

## EXPERIENCE: WORK

02/2008 – Present

### **Java Server Engineer, Safe Software, Surrey, BC**

- Developed foundational web administration and service components
- Developed REST API which was the top notable highlight for 2013
- Supervised student intern assigned to automated test suite
- Provided support for Java web-container platform and language issues
- Track down performance and memory bottlenecks and resource leaks

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- 02/2007 – 02/2008     **PHP Web Developer**, *ICAN Systems Inc., Abbotsford, BC*
- Developed cutting edge AJAX-driven web application for online dispute resolution
  - Designed object-oriented AJAX / PHP MVC framework using JSON and OO design patterns
  - Employed behaviour driven-development to proof complex object-oriented software
  - Responsible for requirements analysis, controlling scope creep, cost/benefit analysis
  - Participated in production scheduling and responsible for setting and keeping milestones
- 05/2005 – 11/2006     **Software Engineer**, *Pioneers (Formerly AWM International), Worthing, UK / Marseille, France*
- Assigned team lead for the *Pancake Network* project, a proprietary VPN solution
  - Designed and implemented a global address book that integrates with VisNetic mail server
  - Lead research on embedded and networking technologies necessary for the project
  - Used the OpenWRT project to reprogram wireless devices
  - Developed embedded software for mini-ATX intranet routers
  - Developed proprietary network applications written in C for performance
  - Built AJAX web application software for monitoring systems using a toolset similar to the DoJo toolkit
- 1/2004 – 05/2005     **Product Trainer**, *Stream International, Chilliwack, BC*
- Promoted from senior support representative after endorsing active customer callback management
  - Initiated and built outbound calling software complementing primary PeopleSoft-based CRM tool
  - Find and report product trends/issues
  - Train and maintain new-hire employees on products, technologies and policies
  - Develop new and update existing training materials for new-hire and existing employees
- 7/2000 – 8/2001     **Tango Web Developer**, *New Creation Consulting & Information Management., Vancouver, BC*
- Driven to develop efficient *and* effective tools for various client projects
  - Proposed ideas and products to solve challenging client problems effectively *and* efficiently
  - Developed a web-spider that downloads a website without need for FTP access
- 7/1999 – 6/2000     **Software Developer**, *ApexMail.Net, Abbotsford, BC*
- Built tools to manage a web-based “mail transfer agent” on Solaris and Linux
  - Innovated NLP-driven anti-spam software designs collaborating with a linguist expert
  - Trained entry-level programmers in **CGI** concepts
  - Became team leader for development of software projects
- 11/1997 – 7/2003     **Web Developer**, *NTonline Technologies, Chilliwack, BC*
- Developed innovative client-based web sites in **Perl**
  - Trained youth and retired students in web design
  - Provided telephone technical support for dial-up services

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## SKILLS & EXPERIENCE: SPECIFIC

### Programming Languages

- **Java:** J2SE - 10 years, JavaEE (Servlets, JSP, tags) – 5 years, JDBC - 3 years, Swing - 4 years
- **C/C++:** C - 4 years, C++ - 16 years, STL - 8 years, C++11 – 9 mos.
- **Web:** JavaScript - 11 years, CoffeeScript – 4 mos, PHP - 5 years, ASP - 3 years
- **Assembly** – 3 years, FPU – 1 year
- **AI:** Prolog - 1 year
- **Game Programming:** Cg – 4 mos
- **Other:** Python – 1 mos, Perl - 6 years

### Libraries

- **Java Testing:** JUnit – 5 years, RestAssured – 1 year
- **Other Java Libraries:** Dom4j, Axis2, HttpClient, Rhino, Xerces, Apache Commons, Java NIO
- **Front-end:** jQuery – 4 years, Ext-JS – 2 years
- **Databases and ORM:** Hibernate – 2 years
- **Game Programming:** DirectX - 1 year, OGRE – 2 years

### Software Engineering

- **Threading:** 8 years
- **Test-Driven Development:** 1 year
- **Encryption and security:** SSH integrated development – 9 mos.
- **Version control:** Git – 2 years, SVN – 8 years, CVS – 1 year

### Platforms

- **Java Containers:** Tomcat – 6 years, IIS – 1 year, Apache – 2 years, WebLogic, JBoss, WebSphere
- **Windows OS:** Windows 7 – 4 years, Windows Server 2012 – 5 mos.
- **Linux:** CentOS 5 – 4 years, Ubuntu – 6 mos, DSL, RedHat – 7 years
- **Mac OS X:** Snow Leopard – 4 mos., Mavericks – 5 mos.
- **Databases:** MySQL 3,4,5 – 8 years, PostgreSQL – 3 mos, Oracle 8 – 1 mos, MS SQL – 1 mos
- **Misc:** OpenLDAP – 9 mos.

### Applications

- **Build:** Maven – 4 years, Perforce Jam – 2 mos, Ant – 1 mos, CMake – 1 mos, Cake – 3 mos.
- **Development IDE:** Visual Studio 2010 – 4 years, Eclipse – 4 years, IntelliJ IDEA – 4 years
- **Performance Tuning:** YourKit, JProfiler, AQTime, Intel VTune Amplifier, VisualVM, JConsole

### Documentation

- Skilled technical writer
- Excellent command of written English

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## PROJECTS: OPEN SOURCE AND INDEPENDENT

- 10/2008 - Present     **Open-Source Voxel-based Terrain Engine**, *extollIT Enterprises, Vancouver, BC*  
<https://github.com/MadMartian/OhTSM>
- 3D voxel-terrain based engine supports continuous / infinitely large worlds
  - Dynamic real-time terrain deformation
  - Multi-core for maximum throughput
  - Written in C++11 on-top of the OGRE platform
- 07/2013     **Swagger REST API Documentation Engine**, *Safe Software, Newton, BC*  
<https://github.com/MadMartian/swagger-ui>
- Fixed bugs and made enhancements to open-source REST API documentation engine on GitHub
  - Dynamically introspects Java annotations to generate documentation model
  - Interactive Web UI with examples and API call demos
- 07/2013     **CORS Java Filter**, *Safe Software, Newton, BC*  
<https://github.com/MadMartian/cors-filter>
- Enhanced eBay's CORS filter on GitHub to support dynamic updatable configuration
  - Update configuration of CORS filter dynamically without restarting the web server
  - Platform independent, supports many different configuration data source types
- 04/2012     **Chrome Plugin – Link Templater**, *extollIT Enterprises, Vancouver, BC*  
<http://www.extollit.com/linktemplater/>
- Modifies context-menu to provide a custom link navigation feature
  - Interpolate and navigate to a link template with any link chosen on any web page
- 08/2006     **Fastpitch Registration Software Service**, *CMFP, Chilliwack, BC*
- Technologies used: Paypal, JavaEE, Hibernate, LDAP
  - Automates bulk-email, reports, receipts and official forms
  - Actively used by the Chilliwack Minor Fastpitch Association
- 08/2006     **AJAX-Driven Electronic Warranty Claim Software**, *Carter Canada, Surrey, BC*
- AJAX-driven web interface for maximum usability utilizing XML-RPC, JavaScript, and PHP technologies
  - Seamlessly backwards compatible with older browsers that do not support AJAX
  - Cross-browser compatible
  - Designed proprietary AJAX-tailored custom cross-browser GUI components and utilized other third party ones

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- 01/2006      **Blog Matching Server**, *tBlog.com, San Francisco, CA*
- Organically matches blogs based on similarity using Linear Algebra
  - Machine learning system that processes hundreds of thousands of records quickly
  - Scalable, socket-based server written in C/C++ with use of STL and Posix threads on Linux
  - Responsible for requirements analysis, controlling scope creep, cost/benefit analysis
  - Participated in production scheduling and responsible for setting and keeping milestones
- 07/2004 - 2007      **Java Applet MMO-RPG Video Game**, *extollIT Enterprises, Vancouver, BC*
- Runs in any web-browser with Java installed, supports Internet multi-play
  - Based on JavaEE, Java Standard, and MySQL (Apache Cassandra coming soon)
- 08/2003      **Distributed CD-ROM Security System**, *Eagle Research, Penticton, BC*
- On-the-fly DES/CBC decryption for video playback
  - Uses client/server architecture to authenticate users
  - Developed using Java 2 Standard Edition with PHP and MySQL
- 06/2003      **Heavy-client Survey System**, *Trinity Western University Student Association, Langley, BC*
- Designed and developed a distributed solution for conducting surveys
  - Employed strong encryption and rich GUI client application interface
  - Integrated with university's student database
- 04/2001      **Independent Film Production**, *Down by the Fire Productions, Langley, BC*
- Produced an independent film shot on campus at Trinity Western University
  - Managed 45 cast, crew, marketing, and financial staff
  - Debut screening with ~300 viewers
- 12/2000      **Chess Game**, *Trinity Western University, Langley, BC*
- Inspired by *Deep Blue*, uses two-ply prediction
  - Built with a combination of Turbo Pascal and Assembly
- 10/1999      **Proprietary Email Client**, *ApexMail.Net, Abbotsford, BC*
- Developed a POP e-Mail client similar to "Outlook Express" for ApexMail's web service written in Java
  - Auto-forwarding options and e-mail filtering
  - Linked to web-mail similar to IMAP

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## EXPERIENCE: VOLUNTEER

- 01/2012 – 11/2013    **Web Master**, *Royal Astronomical Society of Canada, Vancouver, BC*
- Deputy to the I.T. chair on the council
  - Maintain web-content
  - Provide I.T. and non-I.T. support for organized events
- 04/2002 – 04/2003    **Web Developer**, *Trinity Western University Student Association, Langley, BC*
- Designed and developed a web-based administration tool
  - Collaborated with other teams for design requirements
- 03/2003 – 06/2005    **Life-Group Leader**, *Promontory Community Church, Chilliwack, BC*
- Responsible for development of the web-site
  - Leader for college and career group

**REFERENCES:** *available upon request*