

Jonathan Neufeld, B.Sc.

Vancouver, BC, Canada

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

OBJECTIVE: To continue my career in an empowering environment with stimulating technical duties aspiring towards management duties

STRENGTHS:

- Ability to visualize end-to-end solutions
 - Analytical, abstract thinker, able to think outside of the box
 - Strong leadership and communication skills
 - Wide variety of software engineering experiences, both technical and situational
- ❑ 8 years experience writing Java applications, some experience writing J2EE applications
 - ❑ Strong object oriented programming skills and thorough understanding of object oriented design patterns
 - ❑ 10 years experience programming in C/C++ (includes Borland / Inprise C++ Builder, Visual Studio)
 - ❑ Experience using RDBMS' Oracle database server, MS SQL server, My SQL, Access
 - ❑ Thorough knowledge of portable and vendor-specific SQL syntax
 - ❑ Experience building software for embedded systems (Palm)
 - ❑ Expertise developing on Linux, Windows NT, XP, 98 platforms, and some Macintosh
 - ❑ Proficient in: Assembly language, Perl, VBA, VB, Bash, Sed, Awk
 - ❑ Experience developing expert systems in Prolog

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

02/2007 – 02/2008 ■ **Contract Software Engineer, ICAN Systems Inc., Abbotsford, BC**

- Developed cutting edge AJAX-driven web application for online dispute resolution
- Architected an object-oriented AJAX / PHP MVC framework using JSON and standard 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 ■ **Contract Software Engineer, AWM International, Worthing, UK / Marseille, France**

- Assigned team lead for the Pancake Network project, a custom VPN solution
- Designed and implemented a global address book that integrates with VisNetic mail server
- Lead the research effort on embedded technologies, networking technologies necessary for the project
- Used the OpenWRT project to reprogram wireless devices
- Designed and built proprietary embedded software for lightweight mini-ATX intranet routers using SSH
- Built using BASH scripting, and custom network applications written in C
- 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

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- Develop new and update existing training materials for new-hire and existing employees

10/2003 – Present ■ **Research Assistant / DBA, ICAN Systems Inc., Vancouver, BC**

- Database administrator for the international eNegotiation tournaments
- Developed management software to efficiently delegate responsibility

7/2000 – 8/2001 ■ **Programmer (I.T. Consulting Firm), 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
- Designed and built a web-spider tool that downloads content of a website without the 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 a team of entry-level programmers in **CGI** concepts earning commendation from my supervisor
- Became team leader for development of software projects after my proven training ability

11/1997 – 7/2003 ■ **Web Programmer, NOnline 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: SPECIFIC

Software Languages

- Java: J2SE (overall) - 9 years, JDBC - 2 years, Swing - 4 years, Beans - 1 year, J2EE basic experience
- JSP and Servlets - 1 month
- C/C++: C - 4 years, C++ - 10 years, STL - 3 years, MFC - 2 years
- APIs: Windows Core API - 5 years, ODBC - 1 year, NT Services - 1 year
- Web: Perl 3 years, PHP - 5 years, ASP - 3 years, Visual Basic - 2 years, JavaScript - 4 years
- x86 assembly language – 3 years, basic knowledge of vendor-specific instruction sets, FPU – 1 year
- AI: Prolog - 1 year
- 3D Programming: DirectX - 1 year, OpenGL – some
- Natural language processing: blog user matching engine – 6 months

Software Engineering

- Client / Server design & development: Windows 2 years, Linux 1 year
- Building multi-threaded desktop and server applications – 3 years
- System engineering / 3rd party application integration 2 years
- Network application and server programming – 3 years
- Encryption and security: SSH integrated development 1 year, streaming encryption 1 year
- Unified modeling language – 2 years cumulative use
- Strong object-oriented programming skills, thorough knowledge of object-oriented design patterns
- Strong experience developing applications with MVC architecture
- Employing behavior-driven development – 1 year
- Version control: SVN – 1 year, CVS – 1 year

Software Platforms

- Windows XP 4 years, Windows NT 3 years, Windows 2000 1 year
- RedHat Linux 4 years (advanced proficiency), Debian Linux 1 year
- Mac OS X 1 year, Mac OS 8/9 1 year
- Sun Solaris – Less than a year

Software Applications

- Office: Microsoft Office Professional (Access, Excel, Word, PowerPoint) 4 years, OpenOffice 2 years
- Zend PHP Studio Professional - 1 year
- Tortoise SVN version control -1 year
- Visual Studio 4 years
- Apache web server – 3 years
- Apache Tomcat J2EE web container – 1 month

Mathematics

- Proficient understanding of Linear Algebra applied to 3D applications
- Proficient understanding of Statistics and Quantitative Methods applied to database software

Databases

- MySQL v3,4,5 – 5 years, Oracle 8 – 1 year, MS SQL – 2 years
- Strong database API development experience with: ODBC, Perl, JDBC, ADODB, Linux
- Schema modeling languages (ER / EER) – 1 year

Documentation

- Skilled technical writer
- Excellent command of written English
- Excellent ability to express thoughts, ideas, designs, plans, and concepts in written form
- Good command of written French

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EXPERIENCE: RELATED

08/2006

AJAX-Driven Electronic Warranty Claim Software

- A customer information, warranty claim, and sales management system built using AJAX web software technology
 - 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

01/2006

Blog Matching Server Software

- Organically matches blogs (web-based diaries) based on similarity between blogs utilizing Linear Algebraic equations
 - 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

07/2004

Multi player Fully-Interactive Game

- Developed a multi player client/server video game written in **Java** representing almost a year of work and additional experience in Java
 - Released to the public for cross-platform and cross-browser support
 - Utilizes MySQL and PHP for the server-side

08/2003

Distributed CD-ROM Security System

- Designed and developed a **Java** cross-platform security model for a distributed CD-ROM designed to password-protect its contents
 - On-the-fly DES/CBC decryption for video playback
 - Uses client/server architecture to authenticate users
 - Developed using Java 2 Standard Edition

06/2003

Electronic Survey System

- Designed and developed a distributed solution for conducting surveys for **Trinity Western University**
 - Employed strong encryption and rich GUI client application interface
 - Integrated with university's student database

04/2001

Independent Film Production

- Producer for an independent film shot on campus at Trinity Western University
 - Directly involved 45 cast, crew, marketing, and financial staff
 - Debut screening in-front of three hundred viewers
 - Professionally designed

12/2000

Chess Game "Deep Blew"

- With a colleague, developed a chess game with a two-ply artificially intelligent opponent.
 - Built using a combination of assembly language and Turbo Pascal

10/1999

Proprietary e-Mail Client

- 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

4/2002 – 4/2003 **Website Developer / Webmaster,**

Trinity Western University Student Business Association, Langley, BC

- Database driven maintenance interface designed for non-technical users
- Designed web content with a team, generates seventy-four unique visits per day

3/2003 – 06/2005 **Webmaster / Life-group Co-Leader**

Promontory Community Church, Chilliwack, BC

- Oversee development of web site
- Co-leader of church college & career group

REFERENCES: *available upon request*