

## PHILIP NADEAU- [PHIL@PHIL.ORG](mailto:PHIL@PHIL.ORG)

### OBJECTIVE

A full-time role as a Software Engineer within an AI specialty – Text Analysis, Search (aka Information Retrieval), or Machine Learning.

### WHAT I BRING WITH ME

**I've grown up with this industry**, since the days when we typed programs into computers from magazines, we used cassette tapes for music and data, and 64KB was plenty for anybody. I've been working on the Internet since 1991, running Linux since 1992, and professionally employed as a software developer almost continuously since 1994.

**I cover both theory and practice.** I obtained my BSci in the first days of the Dot-Com boom. I've written tens of thousands of lines of code with the LAMP stack (Linux, Apache, MySQL, Perl), Java, C, and a variety of other languages. I've since discovered that the real problems in CS need a stronger understanding of theory, so I obtained a Masters of Science in 2012.

**I have a plan for the hard problems.** The Internet has given us vast oceans of data at every level of commercial and cultural relevance. However, few tools exist to make sense of it: chiefly the spam filter and the search engine. Both individual and organization capability will become increasingly contingent on amplifying quality results and suppressing noise. That's why I'm making a career out of search engineering.

**Free Trial Offer.** Interviews are fine, but I'd really like to teach you something. Request a “brown bag” seminar on modern search engineering and find out what I can do for you!

### PRINCIPLE TECHNOLOGIES

Linux, MySQL, Postgres, Perl (CGI, DBI/DBD, Test::More), Java (JPA, Spring), SOLR, Lucene, Machine Learning, Text Processing, Information Retrieval

### CAREER HIGHLIGHTS

1996: Drove “Doom” using a motion capture system made from SGIs and video cameras.

1997: Graduation from Stevens Tech with a Bachelor of Science.

1999: Scaled MedWebPlus to over half a million hits a month.

2000: KARR pre-millennial automotive jukebox: <http://www.phil.org/karr>

2004: Saved the users of a regional ISP from a flood of spam with a Barracuda and OpenLDAP

2006: Scored the root zone records of every domain in .com, .net, and .org for signs of fraud.

2007: Wrote and taught an introductory programming lab in Ada 95 at WWU for three terms.

2012: Graduation from Western Washington University with a Masters of Science.

2013: Product search for Ador, featuring color extraction and color search for product images.

## EDUCATION

<p><b>Masters of Science (Computer Science)</b> Western Washington University Bellingham, WA March 2012</p>	<p><i>Specialization:</i> Machine Learning, Information Retrieval. <i>Capstone project:</i> "Information Extraction from Postal Addresses with Bootstrapped Evolution of Grammars And Lexicons " <i>Additional:</i> Genetic Algorithms, Reconfigurable Computing, High Performance Computing, Device Drivers, Automata Theory, Algorithm Design and Analysis, Research Methodology</p>
<p><b>Bachelor of Science (Computer Science)</b> Stevens Institute of Technology Hoboken, NJ June 1997</p>	<p><i>Core Undergrad Curriculum:</i> Science and Engineering <i>Specialization:</i> Software engineering, UNIX development <i>Electives:</i> Ethics, History of Science, Philosophy</p>

## EMPLOYMENT HISTORY (2007-2014)

<p><b>Senior Software Engineer (SOLR/Java)</b> Lockerz.com (aka Ador) Seattle, WA Oct 2012 – Now</p>	<ul style="list-style-type: none"> <li>◆ Lead developer of product and lifestyle article search in SOLR</li> <li>◆ Implemented relevancy enhancer via named entity detection</li> <li>◆ Implemented color extractor and search for product images</li> <li>◆ Implemented RSS fetcher with article and image extraction</li> <li>◆ Principle technologies: Java; JPA; Angular; SOLR; Postgres; Linux</li> </ul>
<p><b>Software Engineer (SOLR/Java)</b> Datasphere.com Bellevue, WA Apr 2011- Oct 2012</p>	<ul style="list-style-type: none"> <li>◆ Upgraded 16 million+ document SOLR installation from 1.3 to 3.1 within the context of significant high-availability requirements</li> <li>◆ Participated in pager rotation</li> <li>◆ Maintained SOLR installation on ongoing basis</li> <li>◆ Principle technologies: Java; SOLR; Perl; C#; Linux; Corosync</li> </ul>
<p><b>Software Engineer II (Future People Search)</b> White Pages Seattle, WA Apr 2009-Mar 2011</p>	<ul style="list-style-type: none"> <li>◆ Wrote Test-Driven Development (TDD) instruments to aid in relevance tuning of the Future People Search (FPS) initiative</li> <li>◆ Conducted seminars on Information Retrieval Theory (which I maintain got me hired), TDD, and Genetic Algorithms</li> <li>◆ Investigated use of Cartesian Tiers for People Search in SOLR</li> <li>◆ PCI compliance upgrades for credit card payment system</li> <li>◆ Principle technologies: Perl; Java; SOLR; Ruby; CyberSource; Linux</li> </ul>
<p><b>Grad Assistant (Lab Instructor)</b> Western Washington University Bellingham, WA Sep 2007-Jun 2008</p>	<ul style="list-style-type: none"> <li>◆ Supervised, graded, and tutored 45+ students per term</li> <li>◆ Wrote instructional corpus of 35+ pages, covering seven separate introductory-level programming assignments in Ada 95</li> <li>◆ Principle technologies: Ada-95; GUIDE; Blackboard</li> </ul>

## EMPLOYMENT HISTORY (1994-2007)

<p><b>Contracting Developer</b> Digital Footprints Intl DBA Internet Identity Tacoma, WA Mar 2005-Sep 2007</p>	<ul style="list-style-type: none"> <li>◆ Using Perl, implemented 'Automated Domain Trust' (ADT) system to inspected registry information for evidence of fraud (in the first months of rampant "domain tasting")</li> <li>◆ Web tools to present anomalies for oversight by abuse analysts</li> <li>◆ Established baseline measurements for 40 million GTLD entries</li> <li>◆ Principle technologies: Perl; WHOIS; Linux; Ruby; HTML</li> </ul>
<p><b>ISP Systems Engineer</b> Innercite El Dorado Hills, CA Sep 2003-Mar 2005</p>	<ul style="list-style-type: none"> <li>◆ With a team of three, maintained an IP network with a class B IP allocation, multiple DS3 peers, and multi-site wireless backbone</li> <li>◆ Provisioned and maintained wireless, dialup, email, co-location, and hosted web site services, for an ISP of over 5000+ users</li> <li>◆ Integrated Barracuda spam trap into 8000+ mailboxes</li> <li>◆ Principle technologies: Linux; RADIUS; BIND; Ethereal (aka Wireshark); Cobalt Raq; OpenLDAP; UW-POP; UW-IMAP; Sendmail; Soekris devices; Cisco router, switch, and wireless devices</li> </ul>
<p><b>Sysadmin/Embedded Developer</b> eBox Toronto, Ontario, Canada Aug 2001-Feb 2003</p>	<ul style="list-style-type: none"> <li>◆ Prototyped software for in-vehicle logistics terminal with RFID parcel tracking and GPS-based Automatic Position Reporting</li> <li>◆ Principle technologies: Linux; Postfix; Apache; Tomcat; Postgres; IPTables; IPsec VPN; Serial devices; Perl</li> </ul>
<p><b>Project Manager</b> Flexis.net Palo Alto, CA Aug 1998-Aug 2001</p>	<ul style="list-style-type: none"> <li>◆ Principal developer for a semantic search platform based on the Unified Medical Language System (UMLS)</li> <li>◆ Wrote 'YBase Informatics Engine', a search applications platform</li> <li>◆ Principle technologies: Perl; Postgres; Linux; CGI; HTML</li> </ul>
<p><b>Consulting Partner</b> Big Panda House Fort Lee, NJ Sep 1996-Jun 1998</p>	<ul style="list-style-type: none"> <li>◆ Implemented e-commerce and sysadmin tools in Perl</li> <li>◆ Ongoing machine vision and visualization work at Bell Labs</li> <li>◆ Wrote business case for ARIZONA space flight game</li> <li>◆ Principle technologies: Perl; C++; Linux; Apache; CGI; HTML</li> </ul>
<p><b>Programming Consultant</b> Bell Labs Machine Perception Group Holmdel, NJ Jul 1995-Aug 1996</p>	<ul style="list-style-type: none"> <li>◆ Under supervision of experts in machine vision, implemented touch-free, gesture control of "Doom" FPS game on SGI platform</li> <li>◆ Implemented pose visualization and GUI parameter tuning aids</li> <li>◆ Principle technologies: SGI IRIX; C++; OpenGL; SGI VL; TCL/Tk</li> </ul>
<p><b>Multiplayer Server Programmer</b> Cyber Warrior Inc Fair Lawn, NJ Jun 1994-Jun 1995</p>	<ul style="list-style-type: none"> <li>◆ Developer on "Rubies of Eventide" BBS-era MMORPG in the LambaMOO environment, with access to game and bbs via terminal server and dialup modems</li> <li>◆ Principle technologies: Linux; LambdaMOO; DEC OSF/1</li> </ul>

*US CITIZEN - REFERENCES ON REQUEST – ABSOLUTELY NO A-DASH*