

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

**OBJECTIVE**

Full-time development or research role, ideally with 25%+ focus on search or other AI-hard problem.

**SKILL SUMMARY**

- ◆ 16 years of professional development experience
- ◆ Expert Linux and Perl developer
- ◆ SOLR, SQL, C, Java, Ruby, Apache, Ada skills
- ◆ Particular interest in Information Retrieval and Extraction, Machine Learning, Evolutionary Computation, and Natural Language Processing applications.

**CAREER HIGHLIGHTS**

1996: Drove “Doom” using SGIs, video cameras, and a pointing finger.

1997: Graduated from Stevens Tech.

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

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

2004: Stemmed the tide of spam at Innercite with a Barracuda.

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

2007: Wrote my own lab manual for Ada 95 and then taught it to a room full of undergraduates.

2009: Hired by White Pages on the strength of a one-hour seminar on Information Retrieval theory.

2011: Pending Masters' experiment in evolutionary grammar induction.

**EDUCATION**

<b>Masters of Science (Computer Science)</b> Western Washington University Bellingham, WA Expected June 2011	<i>Core Graduate Curriculum:</i> Automata theory, algorithm analysis, programming languages, operating systems, research methodology <i>Electives:</i> Reconfigurable Computing, High Performance Computing, Kernel Drivers for Data Collection Devices <i>Specialization:</i> Machine Learning, Genetic Algorithms, Genetic Programming, Computational Linguistics, Information Retrieval. Final research in evolutionary grammar and lexicon induction in progress, est. completion June, 2011.
<b>Bachelor of Science (Computer Science)</b> Stevens Institute of Technology Hoboken, NJ Awarded June 1997	<i>Core Undergrad Curriculum:</i> Science and Engineering <i>Specialization:</i> Software engineering, UNIX development <i>Electives:</i> Ethics, History of Science, Philosophy

## EMPLOYMENT HISTORY

<p><b>Software Engineer II (Future People Search)</b> White Pages Seattle, WA Apr 2009-Now</p>	<ul style="list-style-type: none"> <li>◆ Designed and implemented test-driven development instruments for the Future People Search (FPS) initiative.</li> <li>◆ Conducted three seminars on Information Retrieval, Test Driven Development, and Genetic Algorithms.</li> <li>◆ Extended Java-based SOLR engine to meet our requirements.</li> <li>◆ Upgrade credit card payment system from legacy to current PCI-compliant Cybersource interface.</li> </ul>
<p><b>Graduate 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 the Ada 95 language.</li> </ul>
<p><b>Contracting Developer (Domain Trust)</b> Digital Footprints Intl DBA Internet Identity Tacoma, WA Mar 2005-Sep 2007</p>	<ul style="list-style-type: none"> <li>◆ Using Perl, designed and implemented 'Automated Domain Trust' (ADT) system. ADT inspected thousands of WHOIS and DNS records per day for fraud (trademark infringement, phishing scams.)</li> <li>◆ Established baseline measurements for the 40 million domains in the Generic Top Level Domains.</li> <li>◆ Implemented subscriber exports in several formats (XML, CSV) and transports (FTP, SFTP, HTTPS)</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>◆ As a member of a team of three, analyzed and maintained an autonomous IP network with a class B IP allocation, multiple DS3 peers, 802.11b backbone, Cisco VLAN and router devices</li> <li>◆ Maintained and operated Perl-based legacy CRM and provisioning tools for a dialup and Wireless Internet Service Provider with 5000+ users.</li> <li>◆ Provisioned and maintained dial-up (RADIUS), DSL (Redback), wireless (802.11b), web hosting (Cobalt Raq), DNS (BIND), email (UW/IMAP, Sendmail) co-location, and other Internet services.</li> <li>◆ Maintained Soekris embedded PC's, a 'Swiss Army Knife' of wireless customer premises device.</li> <li>◆ Integrated a &gt;98% effective anti-spam system into thousands of legacy mailboxes using a Barracuda appliance, OpenLDAP, Sendmail, and UW/IMAP.</li> </ul>

## EMPLOYMENT HISTORY

<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. Features included GPS positioning and navigation, RFID parcel tracking, and remote reporting over iDEN mobile internet.</li> <li>◆ Administered Linux-based IT, including Postfix, Apache, Tomcat, Postgres, IPTables, and IPsec</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 MedWebPlus.com (MWP), a semantic information retrieval system based on the Unified Medical Language System (UMLS) lexicon.</li> <li>◆ Implemented the 'YBase Informatics Engine', a Perl and Postgres-based information retrieval platform, with CGI, FastCGI, and standalone HTTP/S access modes.</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>◆ Continued machine vision and data visualization projects with Bell Labs.</li> <li>◆ Developed business cases for BRUIN wearable computer system and ARIZONA space combat game.</li> </ul>
<p><b>Programming Consultant</b>  Bell Laboratories  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-based control of "Doom" first-person shooter game.</li> <li>◆ Implement gesture recognition platform using SGI/VL, SGI VINO capture devices, and analog cameras.</li> <li>◆ Implemented pose visualization aids in OpenGL.</li> <li>◆ Implemented GUI parameter tuning aids in 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>◆ Individual contributor to multiplayer game server engine on LambdaMOO/Linux platform for unreleased "Rubies of Eventide" title.</li> <li>◆ Assembled dial-up terminal system and Internet connectivity for game transport.</li> </ul>

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If you have read this far, thank you. I encourage prospective employers to consider arranging a seminar or "brown bag" presentation on a preferred subject, as an adjunct to traditional interviews. Call and ask me how!