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Objective

A position involving algorithmics and semantic information (machine learning, search, analysis) with room for career growth.

Skills Summary

- **General:** I have 9 years of experience as a professional developer, integrator, and administrator. My strengths are in the design, analysis, and maintenance of complex systems. In particular, my broad background leads to novel and often unanticipated solutions of hard problems. I am innately curious, which makes me a self-motivated and fast learner.
- **Programming Languages:** C (9 years), Perl (9 years), Ruby (2 years), Java (1 year), PHP (3 years), SQL (3 years), C++ (2 years), HTML (6 years), CSS (3 years)

Work Experience

Search Software Engineer

Paglo Labs, Inc.

January 2008 - June 2008

Palo Alto, CA

- Extended search engine for tree-based queries
- Added faceting to a traditional search backend
- Designed and implemented backend scaling, going from a single machine to twelve
- Designed and added features to a custom tree-based database

Software Engineer

edgeio

September 2006 - December 2007

Palo Alto, CA

- Architected and implemented large-scale ingestion mechanism for custom XML formats
- Helped with design and rapid implementation of search relevance heuristics
- Maintained and refactored (for scaling) custom middleware in Ruby
- Maintained (with algorithmic fixes) a Bayesian classifier
- Designed and partially implemented offline system to sanitize and normalize data
- Designed and partially implemented a CPC-tracking system
- Company shut down in December 2007

Software Engineer

Integrated Media Measurement, Inc.

July 2006 - September 2006

San Mateo, CA

- Designed, implemented, and integrated components of a large processing application
- Maintained and upgraded existing system-critical components

Linux Administrator

ibiblio (formerly SunSITE/MetaLab)

March 2004 - August 2005

UNC Chapel Hill

- Identified, diagnosed, and resolved service and network problems at all levels
- Jointly administered high-availability clusters of web and FTP servers
- Jointly administered a high-traffic Postfix SMTP server
- Designed, implemented, and integrated new administrative infrastructure

Assistant Systems Administrator

Department of Physics and Astronomy

August 2003 - March 2004

UNC Chapel Hill

- Administered a mix of Sun and commodity hardware (~50 machines)
- Designed and implemented a new package management system (see Projects, Ferret)
- Proactively developed short- and long-term plans for maintenance of systems

Programmer / Reverse Engineer

ActiveBuddy

November 2000 - November 2001

Sunnyvale, CA

- Reverse Engineered and reimplemented of AOL's OSCAR (AIM) protocol
- Implemented Yahoo! Messenger (YMSG) protocol
- Implemented proprietary, multi-tiered infrastructure utilizing multiple protocols

Programmer / Reverse Engineer

Aimster, Inc

June 2000 - November 2000

Troy, NY

- Reverse Engineered AOL's OSCAR (AIM and ICQ) and OFT (File Transfer) protocols
- Reimplemented the AIM/ICQ protocol in a custom, data-extracting proxy for Windows

Systems Integrator

Unix Group, Inc

June 1999 - June 2000

Chicago, IL

- Wrote custom software to migrate accounting data between various file formats
- Installed and maintained Linux and SCO UNIX- and Xenix-based servers

Education

- Bachelor of Arts, Mathematics, University of North Carolina at Chapel Hill, May 2006
- Bachelor of Arts, Linguistics, University of North Carolina at Chapel Hill, May 2006
- For the majority of my undergraduate career, I worked 20+ hours per week
- Cumulative GPA: 3.2 (Two majors, working half-time, in two-and-a-half years...)

Noteworthy Personal Projects

- **index.rb**: A framework for indexing text using Latent Semantic Analysis (http://www.joshisanerd.com/ruby_index/)
- **HEBCI**: An innovative technique for detecting a web form's encoding. (<http://search.cpan.org/~jbm/Encode-HEBCI-0.01/HEBCI.pm>)
- **libedio**: High-level, event-driven UNIX Socket I/O library (<http://libedio.sf.net/>)
- **dragon-char**: Character training software for PalmOS devices (<http://dragon-char.sf.net/>)
- **libfaim**: Free implementation of the OSCAR/AIM protocol (no longer active)
- **ferret**: Package management system which allows the installation and maintenance of multiple concurrent, incompatible versions of software (UNC Physics Proprietary)
- *Hacking Knoppix*: "Chapter 7: Clustering with Knoppix", Wiley, 2006