

# MINH TRAN

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**Objective** To take on new challenges and to expand my horizons as a software engineer.

**Technical Expertise**

<b>Languages</b>	Ruby, JS, C/C++, Python, Java, Perl, Scheme, HTML, XML, CSS, L <sup>A</sup> T <sub>E</sub> X, MIPs
<b>Databases</b>	PostgreSQL, MySQL, MS Access
<b>Servers</b>	Apache HTTP, Apache Tomcat, Sphinx, Memcached, Mongrel, Nginx
<b>Libraries</b>	Ruby on Rails, jQuery, Prototype.js, Boost C++, CPAN
<b>Tools</b>	SVN, CVS, Firebug, Web Developer Toolbar, gdb/gjdb, j/flex, j/bison, make, emacs, vim, Eclipse, Visual C++, Trac, TWiki, BugZilla, mutt
<b>OSes</b>	Linux/Unix, Mac OS X, Windows
<b>Protocols</b>	HTTP, SMTP, SNMP, REST, JSON, XML, YAML, cXML
<b>APIs</b>	Amazon Product Advertising, eBay Finding, LinkShare, Commission Junction

**Work Experience**

<b>Software Engineer</b>	San Mateo, CA
<i>Coupa Software, Inc.</i>	June 2008 - Present

Develop in Ruby on Rails, an on-demand, cloud-based web application for managing businesses' procurement processes and expenses. Work at all levels of the stack, from the backend system (database, cache, search) to the frontend (Javascript, HTML, CSS).

- Engineered system for customizing, previewing, and emailing orders using Liquid templates
- Coded dashboards for spend statistics using jQuery, flot, and complex SQL; supports benchmarking against other customers and creating budget/spend email alerts
- Developed quick start, enabling customers to quickly setup their business processes
- Implemented Sphinx search engine and replaced Ferret for full text search of catalog items
- Augmented catalog search with AJAX results from Amazon, LinkShare, CJ, and eBay
- Programmed rule-based email parsers to create expense reports from receipts
- Laid foundation and invalidation schemes for using memcached
- Established API for creating invoices via commerce XML (cXML)
- Updated code-base from Rails 1.2.6 to 2.1.1, 2.2.2, 2.3.2, and 2.3.4

**Lead Programmer** Berkeley, CA  
*Application Services, Residential and Student Service Programs-IT* April 2007 - April 2008

Managed a team of eight programmers to deliver web- and system-based solutions for a number of heterogenous interoperable systems. Provided mentorship and training for staff programmers; determine programming standards for the department. Facilitated collaboration on cross-team projects. Met with clients to gather requirements and feedback.

- Designed and implemented a network access control system that manages residents' IP assignment and their internet experience (Class::Std, Template Toolkit, DBIx::Class, JA-SIG CAS)
- Updated critical eight-year-old legacy system for managing 270 Cisco switches to use SNMPv3
- Improved release engineering procedures and model using SVN and BugZilla
- Unified two separate programmer groups to a single cohesive team during reorganization

**Programmer** Berkeley, CA  
*Residential Computing, Residential and Student Service Programs-IT* May 2006 - April 2007

In a \*nix environment, developed web-based tools to monitor and maintain systems that provide internet services for over 8000 residents. Re-designed and updated large Perl legacy systems to meet new technical standards and needs of clients.

- Revamped conference management system to be modular, using TTK and Class::DBI
- Programmed a Perl script that uses SNMP to gather wireless network usage statistics
- Evaluated open source solutions (e.g. Request Tracker) to extend in-house ticketing systems
- Automated load testing of internet registration system after its migration to mod\_perl
- Fixed and extended system that parses reports of infected clients and shuts them off

**Education** University of California, Berkeley Berkeley, CA  
B.S. in Electrical Engineering and Computer Science May 2008