

Andrew C. Young

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EDUCATION University of Texas, Austin, Texas
B.A. Linguistics (Computational Linguistics)

- Graduated in August 2009 with departmental honors.
- Thesis Topic: The Effect of Selectional Preferences on Semantic Role Labeling
- Minors: Computer Science, English
- Programming Languages Used: Java, Ruby, Python, C++

CERTIFICATIONS Sun Certified Programmer for the Java 2 Platform 1.4
Sun Certified Developer for the Java 2 Platform
Sun Certified Web Component Developer for the Java 2 Platform, Enterprise Edition 1.4

SKILLS *Programming Languages:*
Well Known: Java (10+ years), Perl (10+ years), Ruby (2+ years)
Less Well Known: Groovy, Python, PHP, C++, C#, JavaScript, Clojure (LISP), RPG IV
Technologies: XML, HTML, CSS, Unicode, SQL, J2EE, JSP, EJB, SOAP, Swing, QT 4
Topics: Internationalization, N-tier Enterprise Systems, Database Design, Web Services
IDEs: Eclipse, Rational Application Developer, JBuilder, NetBeans, MS Visual Studio
Applications: L^AT_EX, Emacs, Vim, OpenOffice, Microsoft Office, Visio, KDE, Gnome, Firefox
Operating Systems: Linux, Windows, Mac OSX, Mac OS, Solaris, AIX, IBM i (i5/OS, OS/400)
Databases: MySQL, PostgreSQL, DB2, Oracle, Sybase, Sqlite, HyperSQL (HSQLDB)

PROFESSIONAL EXPERIENCE Software Engineer Mar 2010 – Present
Texas Mutual Insurance Company (KForce) Austin, Texas
Summary: Worked on IT systems used by the underwriting department.

Example Project: Pricing Worksheet

- Summary: Handled maintenance and new development for a pricing worksheet application used by the underwriting department. This was a J2EE app running on WebSphere Application Server on IBM i. The application was built using Hibernate, Spring, Struts, and the Dojo JavaScript framework. It used a DB2 for IBM i database as its backend and made calls to RPG IV applications running on the IBM i.
- Technologies: Java, Hibernate, Spring, Struts, Dojo, DB2, IBM i (aka iSeries, aka AS/400), RPG IV (aka RPGLE)

Research Assistant (Part-Time) Mar 2008 – Mar 2010
Liberal Arts ITS - UT Austin Austin, Texas

Summary: Worked on various projects for the linguistics department.

Example Project: Shalmaneser GUI (Mar 2008 - Present)

- Summary: Designed and implemented a Java client/server architecture as well as a Swing GUI for an existing Ruby semantic analysis tool. The server used JRuby so that the semantic analysis tool could be run within the JVM and could access existing resource intensive Java objects that handled syntactic parsing and machine learning. The server also handled job queuing so that multiple users could access the same objects. The client communicated with the server via a RESTful web service that allowed multiple clients to make use of a single server instance.
- Technologies: Ruby, Java, JRuby, Swing, REST, Sqlite, MySql
- Website: <http://comp.ling.utexas.edu/shalmaneser/>

Example Project: Hunter Gatherer Languages Database (Dec 2009 - Present)

- Summary: Took a preliminary database design and created a web-based interface for working with the data using Groovy and Grails. I also worked with the customer to flesh out the details of the database design and come up with a proper set of requirements for the application. I also worked with the IT department to discover which technologies were supported for hosting the application.
- Technologies: Java, Groovy, Grails, HSQLDB

Sr. Software Engineer
Rackspace Managed Hosting, Inc.

Apr 2008 – Oct 2009
Austin, Texas

Summary: Worked on Rackspace's cloud computing infrastructure and provisioning.

Example Project: Customer facing REST API.

- Summary: Helped design and implement a RESTful services API that customers use to manage their cloud services.
- Technologies: Java, J2EE, ServiceMix ESB, SOAP, REST, JAXB, Hibernate, Spring, SQL, Linux, MySQL, PostgreSQL

Example Project: Cloud provisioning system.

- Summary: Helped implement and maintain new features in the cloud provisioning system. This system was the middleware that allowed multiple customer front ends (APIs, web site, etc) to manage customer configurations.
- Technologies: Java, J2EE, ServiceMix ESB, SOAP, JAXB, Hibernate, Spring, Ruby, SQL, Linux, MySQL, PostgreSQL

Software Engineer
Blogging Systems, LLC

Aug 2007 – Apr 2008
Austin, Texas

Summary: Helped to design and implement a social networking website on top of the Drupal open source content management system.

- Technologies: PHP, MySQL, Drupal, Linux.

Software Programmer
ARM

Jan 2006 – Aug 2007
Austin, Texas

Summary: Worked on various applications used by the processor design team.

Example Project: Parsing framework for Verilog, LEF, and DEF.

- Summary: The parser used the ANTLR parser generator and allowed the developer who was using it to register callbacks for various sections of the parsed files.
- Technologies: Java, ANTLR, Verilog, LEF, DEF, Linux.

Example Project: Application for viewing processor design blocks.

- Summary: Displayed a 2D representation of a processor design block along with various information about the cells in the design. The 2D representation was rendered in 3D with OpenGL for performance reasons.
- Technologies: Java, OpenGL, JOGL, Eclipse RCP, SWT, Linux.

Example Project: Application for tiling processor design blocks.

- Summary: Read processor design in Verilog along with relative placement data Verilog extensions and produced a tiled design. The tool also maintained certain business constraints by adding necessary components to the design, such as well tie cells. Several output formats were produced, including a "standard" version of the Verilog input file for customer use.
- Technologies: Java, ANTLR, Verilog, LEF, DEF, Tcl, Linux.

Staff Software Engineer
IBM

Sep 1999 – Dec 2005
Austin, Texas

Summary: Worked on various applications used by the customer support team. Interfaced with the support team in Japan to collect requirements and solve issues relating to proper internationalization of our tools.

Example Project: External customer support website.

- Summary: This was a worldwide web application used by IBM's customers to obtain support and track problems. The frontend was written in Perl and later converted to Mason (embedded Perl). I wrote a model/view/controller framework similar to Apache Struts on top of Mason, an API that used SOAP to talk to our Java middleware, an internationalization framework including an XML language bundle format, and a complicated object model that enforced data types and made Java to Perl communication easier.
- Technologies: Perl, Mason, SOAP, XML, HTML, CSS, JavaScript, Unicode, Internationalization (i18n), Linux
- Design Patterns: Model, View, Controller, Delegate, Factory, Proxy, Value Objects, Action Objects

Example Project: Customer support middleware.

- Summary: This middleware supported the external web frontend, as well as several internal frontends and other systems. It was originally written as a custom application server with pluggable service modules, but it was later ported to WebSphere. The WebSphere version consisted of a SOAP layer on top of a business logic layer when sat on top of a data access layer. Another component of the system interfaced with a large mainframe to view and update the customer problems. I worked on various parts of each layer along with other team members. I was also in charge of implementing proper Unicode handling, language aware text wrapping, code page conversion to/from Unicode, and other internationalization related code.
- Technologies: Java, Servlet, SOAP, JDBC, SQL, Stored Procedures, EJB, XML, Unicode, EBCDIC, Shift-JIS, EUC-JP, ISO-2022-JP, Internationalization (i18n), Linux
- Design Patterns: Factory, Adapter, Facade, Delegate, Data Access Objects, Value Objects

Example Project: Internal customer support website.

- Summary: This was an internal Apache Struts application used by customer support personnel to verify a customer's product entitlements and view their problem reports. It interfaced with the middleware to accomplish this, and was actually a thin layer on top of that middleware. It communicated with the middleware using EJBs instead of SOAP. It made extensive use of the Java Standard Tag Libraries along with several custom tag libraries.
- Technologies: Java, HTML, CSS, JavaScript, JSP, Servlet, JSTL, Struts, EJB, XML, Unicode, Internationalization (i18n), Linux, DB2
- Design Patterns: Factory, Adapter, Facade, Value Objects, Model, View, Controller, Action Objects

Example Project: Report generation.

- Summary: I was in charge of writing scripts to generate several types of reports based on data in our backend systems. Examples include reports on which customers used the website, how often they used it, what languages they used it in, which products had the most support requests, the average resolution time of support requests, what browsers were being used most often, etc.
- Technologies: Perl, DBI, HTML, XML, CSS, Java, Unicode, Linux, DB2, MySQL, PostgreSQL

Helpdesk Engineer / Jr. Network Admin
Texas.Net

Jun 1996 – Aug 1999
San Antonio, Texas

Supported customers with problems related to their Internet connections.
Helped run cables and install servers in the datacenter.
Wrote Perl scripts to automate tasks.