**MICHAEL PERMANA**

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**EXPERIENCE**

**11/2012-now Senior Software Engineer, snaplogic.com, San Mateo**

Full stack developer (javascript/python): Build a single page application for administering Snaplogic system from scratch. Customer and administrators can manage users/files/permission/jobs in the Snaplogic system using this application.

Implemented full-stack enterprise scheduler. Build the frontend UI that allows job scheduling (weekly, monthly, yearly, interval, time zone support). Also build the REST API handlers on the server, and hook the system with apscheduler & MongoDB.

Implemented full-stack oauth & oauth2 framework for Snaplogic system. The framework allows a component to store oauth application credentials on the server. Show an authorization UI dialog for user that will perform oauth authorization and take the authorization code from oauth provider and store in our system. Build the oauth2 automated token refresh service for our system.

Implemented full-stack email notification service. The front end UI allows user to enter their email, and choose a state when they should be notified. The server provides REST service that takes this settings. Build the server email service to have email templates and configurable SMTP settings.

Implemented full-stack password strength service: when user input password in the UI, we send AJAX call to the server to check the password strength and display the strength. The backend calls the cracklib from python and its provided as a REST service.

Full-stack techonology used: javascript/jQuery/backbone in the frontend, python for the server REST API, Java for pipeline servers, MongoDB for persistence.

Various start-up duties: nginx configuration, aws configuration, Jenkins build cop, UNIX scripts, packaging and deployment system.

**3/2012-10/2012 Senior Software Engineer, cloudwords.com, San Francisco**

Java/javascript developer, in startup environment. Worked on everything from build,front-end javascript,html,css to back-end services,DAO,SQL. Implementing features such as scheduled email/web application notifications, settings page, user management, project management. Technology used: spring, ibatis, jQuery, backbone, underscore, lightbox, gradle, json.

**4/2007-2/2012 Senior Software Engineer, paypal.com, San Jose**

C++ developer. Worked in payment team as developer, maintaining existing payment system, refactoring payment code into services, changing payment transaction to use payment id for idempotency. Provide Payment activity API services to other teams. Java, SQL, Eclipse. Dev lead on upgrade infrastructure effort for all paypal code for xerces in redhat and gcc. Worked on payment workflow engine, providing API calls, backend services, packaging and deployment.

**10/2004-4/2007 Senior Software Engineer, Siebel.com/oracle.com, San Mateo**

C++ & Java developer for Analytics Server group. Worked with C++, Java, ODBC, JDBC, Eclipse. The products worked on: Oracle BI EE Server, Scheduler, Cluster Controller. The server runs on Linux,Windows,SunOS,HPUX and AIX, 32-bit and 64-bit platforms.

* job scheduler server improvements: improve memory usage for sending emails to bulk email recipient, integration with mailpp library (SMTP email client library), high availability
* integration with scripting engine to execute script jobs using COM
* adding SSL support on server and client both C++ (openssl) and Java
* ported build system from Windows to Native UNIX using Jam
* rewriten VB client of scheduler server to java using Eclipse RCP
* JDBC driver developer, works in multithreaded appserver and perform well in high concurrency situation, we have connection pooling, rpc call code to the server, connects to cluster controller which spread the request to clustered servers, the driver works in JDK1.4,1.5 and 1.6
* siebel to oracle integration: use oracle cluster library, authentication to oracle's weblogic using webservice, source control migration from clearcase to ADE (oracle's inhouse scm system), oracle schema creation utility RCU (create schema against Oracle, DB2, MSQL), oracle execution context framework, this is where you stick an id from a request (http request) and pass it all the way to all the server the process it, so all the component that create a log entry can write the id in the log entry to identify that entry is from the same request. The id passed through across network between Java and C++ server, also between parent and worker threads.
* server features: variable initialization using query during login, query usage tracking

**8/2001–10/2004 Software Engineer, actuate.com, South San Francisco**

Java & C++ developer for Actuate’s eReport Server. Worked in the server team during the initial years during report server development providing server SOAP API service. Worked in the web application in the later years consuming SOAP API service and serving web application to users. Worked with C++,Java,JSP,Eclipse, struts, SOAP, WSDL. The products developed runs on Linux,Windows,SunOS,HPUX and AIX. Written HTTP SOAP server. Implemented actuate server API both for client and server. Written ActivePortal (Actuate's J2EE web application). Stress test multithreaded clustered server on multiple platform, fix bugs until they don't crash and runs with thousands of users for a long time.

**1/2001-3/2001 Software Engineer, Trilogy, Austin, TX**

J2EE,Java,JSP,Servlet,XML,JDBC,Swing

**5/2000-7/2000 Software Engineer, Hewlett Packard, Palo Alto, CA**

Written LDAP integrated SMTP client/server for sending email

**12/1998-5/1999 Software Engineer, Pervasive Software, Austin, TX**

MFC client application to manage a file locks for Pervasive Database.

**5/1998-8/1998 Software Engineer, Focus System, Austin, TX**

Web Crawler

**EDUCATION**

Master of Sciences, Computer Sciences, University of Texas at Austin, 2000, GPA: 3.8/4.0

Bachelor of Sciences, Computer Sciences, University of Texas at Austin, 1999, GPA: 3.7/4.0

**PAST PERSONAL PROJECTS**

Found critical bug on AXIS library that only happens on high concurrent situation, and suggested the fix: <https://issues.apache.org/jira/browse/AXIS-1183> (2003) \* Index web pages into dictionary and sparse matrix to represent pages, assign values to pages bases on statistics like website visits, enable query on it and order result on page value (2000, graduate class work) \* SQL Engine with Join Order Optimization in Java (2000, graduate class work) \* Optimizing Pascal Compiler for IBM RS/6000 (1999, class work) \* Parallel Sorting algorithm in SMP machines (1999, class work) \* Othello (Win32 GUI) game with Artificial Intelligence (min-max algorithm) (1999, self interest)

**AWARDS/ACHIEVEMENTS**

\* ACM Regional Programming Contest 1999, 1st place, <http://www.cs.utexas.edu/users/chris/sigcomm/> \* ACM International Collegiate Programming Contest 1998, Georgia, Atlanta, 17th place in the world, <http://acm.baylor.edu/past/icpc98/Finals/Report/Standings.htm> \* ACM Regional Programming Contest 1997, 2nd place \* ACM Regional Programming Contest 1996 \* International Olympiad in Informatics 1996, Hungary, <http://ioinformatics.org/locations/ioi96/results.shtml> \* Graduated with Honors and Special Honors in Computer Sciences \* University Honor List

**COURSES TAKEN**

\* Android mobile programming (coursera.com)

\* M101P: MongoDB for Developers, a course of study offered by 10gen, The MongoDB Company (<https://s3.amazonaws.com/edu-cert.10gen.com/downloads/01f75dccaf784c02af11a2fc97455fe4/Certificate.pdf>)

\* Graduate Courses: Large Scale Data Mining, Database Implementation,Communication Networks, Parallel Techniques for Numerical Algorithms,Mathematical Methods in Computer Graphics, Object Orientation & Concurrency, High Performance Graphics Modeling and Visualization.

\* Undergraduate Courses: Compilers, Computer Networks, Data Management, Operating Systems, Real Time System, Artificial Intelligence, System Modeling, Algorithm Design & Analysis, Numerical Analysis, Computer Architecture, Software Engineering, Programming Languages, Analysis of Programs, Abstract Data Types/Data Structures, Undergraduate Readings and Research, Computer Sciences Honors Course.