

DAN LIPOFSKY

SUMMARY

Lead Software Engineer/Architect with 24 years professional experience and 21 years of Java and Linux/Unix, with experience creating high-throughout low-latency applications.

SKILLS

LANGUAGES: Java, Python, SQL, bash, Perl, XML, HTML, JavaScript, CSS, C, C++, Lisp

CLOUD/MICROSERVICES: Kubernetes (k8s), Docker, Kafka, Avro, AWS

SOA & WEB SERVICES: RESTful WS (JSON), WSDL, XSD, JAXB, SOAP

DATABASES: MySQL, Oracle 10g, MS SQL Server 2005/2000

USER INTERFACE: AJAX, JSP, SpringMVC, JSF, Servlets, Struts, JSTL, Swing

OTHER TECHNOLOGIES: Spring Framework, Spring Boot, J2EE, EJB, Hibernate, JDBC, XML (Xerces2/Castor/JAXP/JAXB), AspectJ, Drools (JBoss Rules), OpenRules, jBPM

TOOLS: IntelliJ, Eclipse, Maven, Ant, Git, Subverion, JUnit, JMockit, JProbe, jhat, jconsole, Unix command-line tools

OS: Linux, macOS, Solaris, AIX, Windows XP

Nasdaq (TradeGuard/FTEN)

January 2012 - Present

Lead Software Engineer

Product: Real-time risk analysis tool combing orders, trades, and quotes from multiple venues world-wide with a diverse set of risk calculations. Complexities include large volumes, many different protocols for communicating financial data, filtering or repairing low-quality data, and cross-referencing different symbologies.

Technologies: Java 8-11, Linux, Python, microservices, Kubernetes, Kafka, Avro, RESTful Web Services (JSON), MySQL, SpringBoot 2, Spring Framework, YAML, Git, GitLab, Maven, and JUnit/JMockit/Spock/Groovy for testing.

Wells Fargo (contractor via Advantis Global)

May 2009 – December 2011

Senior Software Engineer (Project Lead/Release Lead for some projects/releases)

Product: Mobile banking, including text banking (SMS) and mobile web banking (HTTP), and supporting a wide variety of mobile devices via browser as well as apps for iPhone and Android. Consumes web services to retrieve user data from middle-ware layer, provides services for SMS.

Technologies: Java 6, J2EE (MDB), Web Services (SOAP, JAXB, WSDL, XSD), JSP, JSF, JSTL, JavaScript, CSS, Struts/Beehive, SQL, Databases (Oracle 10g, MySQL 4.1), Spring 3.0 (MVC, Dependency Injection, JDBC), MobileAware, WURFL, WebLogic, Tomcat, AspectJ, Eclipse, Maven, Ant, SVN (Subverion 1.6).

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Bricsnet

September 2003 - April 2009

Senior Software Engineer (includes Senior Architect duties)

Product: An enterprise-level web application for all aspects of corporate real estate management, included projects, work orders, assets, space usage, leases, and retail.

Technologies: Java 5, J2EE, EJB, Hibernate, JSP, AJAX, JavaScript, DHTML, CSS, Struts, JSTL, custom TagLibs, BIRT, Drools, jBPM, XML, SQL, JBoss, WebSphere, Orion, AspectJ, Eclipse, Ant, SVN, CVS

- Redesigned the internationalization architecture (date and number formats, time zones, and language). The product supported 6 languages in many countries.
- Redesigned the core business object hierarchy for better flexibility and code reuse.
- Redesigned the Hibernate infrastructure, including extensive custom code generation.
- Designed and implemented the current Business Rules and Process Management architecture using Drools and jBPM (and helped build the previous system using OpenRules).
- Converted Web Services from webMethods Glue to CXF.
- Create an extensive custom tag library, simplifying JSP coding and providing uniformity.
- Designed and implemented many new features, at all levels: database, web services, business logic, rules, workflow, user interface, and unit tests.
- Mentored and trained other engineers, interviewed candidates, and made hiring recommendations.

NuServe • San Francisco, CA

December 2001 - September 2003

Team Lead / Senior Architect / Senior Software Engineer

Product: A multi-tiered web application for risk analysis and insurance applications.

Technologies: Java, J2EE, EJB, JSP, XML, SOAP, HTML, JavaScript, CSS, Oracle, WebLogic, Tomcat, Apache, Ant, CVS, Perl, Unix

- Managed development timelines, set goals, assigned tasks, mentored.
- Interviewed candidates and made hiring recommendations.
- Architected major product components from scratch.
- Wrote EJB, JDBC, and SQL code to implement back-end business logic.
- Wrote JSP, HTML, DHTML, JavaScript, and CSS for front-end work.
- Designed and wrote a sophisticated generic XML architecture to extract and edit data from the DB. It could display and edit data with JSP forms and display data in PDF.
- Wrote testing scripts and unit testing code and helped coordinate QA.
- Unix system administration (Solaris).

Kurion / iSyndicate • Austin, TX

May 2000 - June 2001

Senior Software Engineer

Product: A platform for creating user-customizable web pages and for real-time extraction and repurposing of WWW content and applications.

Technologies: Java, J2EE, Servlets, SQL, JDBC, MS SQL Server, JRun, VSS, Perl

- Architected and coded new components, made key technical decisions.
- Rewrote infrastructure, making major improvements to the efficiency, usability, flexibility, and organization.
- Benchmarking, profiling, and performance tuning.
- Mentored and trained junior programmers.

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Cycorp • cyc.com • Austin, TX

August 1996 - April 2000

Product: General purpose AI composed of an immense multi-contextual knowledge base (over 1,000,000 hand-entered assertions) and an efficient inference engine.

Technology: Java, Lisp, C, Perl, sh, Unix

- January 1998 – April 2000: *Senior Software Engineer*. Programmed Java in both applet and stand-alone contexts. This included several thick client GUI applications using Swing and API code for communicating between Cyc (which is written in Lisp) and the Java tools. Also programmed in Perl and Lisp.
- August 1996 – December 1997: *Lead Release/QA Engineer, System Administrator, and Software Engineer*. Responsible for the testing and release process (building, packaging and installing). Primary customer interface for installation and QA issues. Maintained a mixed cluster of Linux, Solaris, AIX, Windows NT, and Symbolics machines. Programmed in Perl, primarily data mining, and programmed in Lisp and C on the Cyc infrastructure.

California Institute of Technology • caltech.edu • Pasadena, CA

May 1993 - July 1994

Software Developer

Designed and wrote software in C which utilized a robot for the automated creation of a database of images of physical objects. Also wrote software to assist in cleanup of these images. This database was used to train a biologically inspired object recognition program. Worked in a Unix environment.

California Institute of Technology • caltech.edu • Pasadena, CA

June - Sept. 1992

Software Developer

Wrote parts of library in C++ that provided methods to manipulate images stored in a wide variety of file formats through a uniform interface. Unix environment.

Microsoft • microsoft.com • Redmond, WA

June - Sept. 1991

Intern

Updated assembly code for compatibility with MS Assembler 6.0 (from 5.x).

EDUCATION & TRAINING

B.S. in Engineering (Computer Science), 1994, *California Institute of Technology*

M.S. in Computer Science, 1996, *Indiana University, Bloomington*

AWS Certified Cloud Practitioner, 2020