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## Summary

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Broad experience in software architecture, design, and development, having over the past thirty years performed extensive object-oriented design and development of applications in multi-tiered environments involving large databases and web-facing front-ends.

**Cloud Development:** AWS (EC2, S3, SQS, ELB, etc.), formally trained on AWS services in Amazon's architecture class at Amazon headquarters in Seattle.

**Database experience:** SQL, Oracle, DB2, Sybase, MySQL, Derby, MongoDB (NoSQL)

**Web technology:** Apache httpd, Apache Tomcat, Joomla, Drupal, Google Web Toolkit, WebLogic

**Operating systems:** Linux, Windows, Unix (Solaris, HP-UX, AIX, IRIX, etc.)

**Languages:** Java, C, Perl, Python, Ruby, PHP, x86 assembler.

**Software Development Technology:** Subversion, CVS, Apache Ant, Eclipse, etc.

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## Professional Experience

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**April 2012 - Present: DaySpark**

DaySpark is a company developing web technology to enhance user access to videos. Its patent-pending videobar uses Adobe Flash, and alternatively HTML5, technology. I am responsible for all aspects of product development (system architecture, design, and development), and I lead the software development team.

In this position, I architected and designed the DaySpark system using cloud services (AWS). Tested at more than 20,000 videobar deliveries per second, the system is scalable to greater capacities. The system is distributed and redundant for high availability, and geographically dispersed for rapid disaster recovery. (AWS, Java, GWT, Eclipse BIRT, Apache Derby, Jetty, Adobe Flash, HTML5, Ubuntu Linux, Fedora Linux, Subversion)

**2002 - Present: bobwoodbury.com, Software Architecture, Design, and Development Services**

**SOFTWARE DEVELOPMENT:**

Developed a business information system for small health care facilities. Implemented as AJAX web-app using GWT, Apache Tomcat, and Apache Derby. Small health care facilities must maintain charts of patients, and they need a high degree of security to meet federal HIPAA requirements. The application implements strong password encryption and secure communication via SSL. System is hardened against cross scripting and sql injection attack, and is currently in production at one health care facility. I own the code, and plan to market the product. (Java, Tomcat, AJAX, Linux, Derby, SQL, Google Web Toolkit, security, encryption)

**WEB SITE DEVELOPMENT:**

Assist small businesses to create or revamp websites using content management systems.

**SYSTEM SUPPORT:**

Assist small businesses to set up and maintain computing systems and networks, with attention to security and specific business requirements.

**CONTRACT: August 2006 - April 2007: T-Mobile, Bellevue, Washington**

Revised payment processing system to comply with PCI security requirements. (Java, JDBC, Weblogic, Oracle 10g, SQL, encryption, Unix, Perl, design patterns, UML)

**2000 - 2002: Logicalis (formerly Logical), Bellevue, Washington - Application Development**

Developed integrated payment processing system to receive and process payments from multiple channels, such as in-store payments, internet on-line payments, etc. (Java, Weblogic, EJB, Oracle, SQL, JDBC, Swing, XML, XSLT, SOAP, Unix, Linux, WinNT, Win2K, design patterns, UML)

Developed portion of a network management package for a manufacturer of fibre channel network equipment. Designed and implemented interpreted language allowing ad hoc network management modules to be developed quickly, giving the manufacturer a competitive advantage through the speed with which they could respond to newly available network equipment. (Java, XML, SAX, SNMP, Unix, Linux, WinNT, Win2K, design patterns, UML)

Developed single interface to the three major credit bureaus (Experian, Transunion, Equifax), permitting a single credit report to be generated using data from all three bureaus. (Java, various network technologies)

**1991 - 2000: The Boeing Company, Seattle, Washington - Defense projects**

**1987 - 1991 North American Morpho Systems - Fingerprint image storage and retrieval**

**1979 - 1987 Compugraphic (now owned by Agfa) - Computer typesetting software**

(Server-side Java, Client-side Java, JNI, C, CGI, HTML, Perl, Unix, shell scripts, Solaris, AIX, HP-UX, IRIX, Linux, SQL, RDBMS, Oracle, Sybase, UDB/DB2, XML, CORBA, design patterns, UML, 80x86 Assembler)