

Jacob W. Lee

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Summary

I am an experienced web developer and database administrator with a proven history of designing, developing and supporting multiple, time-sensitive projects, both independently and as part of a team.

Skills

- 10+ years of experience in web development and database administration
- Experienced in development with PHP, Perl, ASP, Progress, SQL, JavaScript, Ajax, HTML, CSS
- Experienced in using object oriented model/view/controller frameworks
- Experienced in using Photoshop in web development
- Experienced in developing with the Eclipse development environment
- Experienced in using Linux/UNIX, Mac OS X and Windows for development and server environments
- Experienced in administrating both MySQL and Microsoft SQL Server
- Experienced in independently managing a project from beginning to end
- Experienced in both front end and back end development
- Experienced in supporting and integrating various software systems (Great Plains, PowerCAMPUS, IQ.Web)
- Familiar with Python, Django, Java, C/C++

Professional Experience

Programmer, Project Manager • Northwest University • June 2010 to Present • Kirkland, Washington

- Implemented improved development practices, including code versioning (Subversion) and project collaboration software (ActiveCollab, Trello)
- Designed and developed an online bookstore website seamlessly integrated with Microsoft's Dynamics POS product (PHP, Zend Framework, HTML, jQuery, SQL Server)
- Rewrote the online admissions application to be targeted towards various enrollment types (PHP, HTML, jQuery, MySQL)
- Redesigned and restructured the internal student/staff website for improved navigation, new visual styling, and reimplementation of the blogging system using Wordpress, as well as porting 50+ custom apps written in PHP.
- Conducted regular meetings for coordination of projects and resources across multiple departments to facilitate greater cooperation and clearer communication of needs
- Mentored other programmers to increase the knowledge and education of all team members to a greater level of competency

Application Development Analyst • WSIPC • April 2009 to June 2010 • Mukilteo, Washington

WSIPC, Cont'd

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- Converted and tested applications from a desktop application to the web.
- Wrote test plans to clearly communicate and track issues in software with other developers.
- Produced demonstration tutorials to communicate software defects and project completion.
- Worked with vendors to develop software delivered to K-12 schools nationwide.
- Quickly learned a new programming language to become a productive team member.
- Worked collaboratively with other developers to help each other solve new problems.
- Communicated with support staff to meet the needs of Washington State schools while fixing bugs.

Senior Software Engineer • NuVention Media Inc • May 2007 to December 2008 • Bellevue, Washington

- Designed and developed an asset management system website.
- Designed and developed a loan management system for mortgage brokers.
- Designed and developed a system of scripts and websites to retrieve data from the US Patent and Trademark Office website using a REST interface built with a PHP server and Perl clients.
- Designed and developed a system of scripts to retrieve and process XML patent releases.
- Designed and developed a collaborative website to facilitate the creation and collaboration of ideas, as well as the exploration of millions of patents.
- Built a document search index using Lucene, initially using a custom indexor built using Java and later implemented using Solr.
- Designed and maintained multiple databases to support various websites, including a database containing millions of records of US Patent and Trademark Office documents.

Administrative Database Engineer • Northwest University • August 2000 to May 2007 • Kirkland, Washington

- Assigned sole responsibility for maintaining and insuring the data and system integrity of various databases, including the university's primary academic and financial records databases. Responsibilities included creating integration with third party systems, developing necessary applications and reports, and insuring the integrity of the table structures, relationships, indexes and security for these systems.
- Served as technical lead of, and was commended for, the smooth and timely conversion of the academic database from a legacy system to SQL Server.
- Developed a custom integration system between the academic database and the learning management system by developing scripts, queries, and policies in collaboration with the various departments on campus.
- Designed a human resources database to track employee health benefits, manage contact information, and current and historical employment data, as well as various necessary reports, using Microsoft Access.

Northwest University, Cont'd

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- Built various reporting utilities to produce monthly account statements for staff and students, as well as yearly budget reporting and tracking for departmental heads.
- Utilized ASP, PHP, HTML, CSS, JavaScript and SQL to design and develop the university's online registration, scholarship application, and budget management web pages.
- Used Microsoft Access and Excel to create many detailed and complex database-driven reports for various university departments.
- Lead and participated in discussions and meetings with clients to identify priorities, clarify requirements, provide recommendations and report on progress.
- Assisted in finding and defining flaws in hardware and software.

Education

- **Bachelor of Science in Computer Science** • Whitworth College • Spokane, Washington