Tim Bornholtz

Application Developer at US Department of Education - Office of Federal Student Aid

tim@bornholtz.com

Specialties

Detailed understanding of the higher education financial aid process. Concrete experience with both FFEL and DL.

Certified Java developer

Certified WebSphere engineer

Thorough understanding of modern web development technologies (HTML, XHTML, CSS, JavaScript, Ajax)

Experience

Application Developer at   US Department of Education - Office of Federal Student Aid
January 2011 - Present (1 year 5 months)

President at   The Bornholtz Group
March 2006 - December 2010 (4 years 10 months)

Senior System Integration Architect at   US Department of Education
April 2004 - March 2006 (2 years)

Sr. Programmer at   Priority Technologies Inc
1999 - 2004 (5 years)

Programmer at   Central States Health & Life Co. of Omaha
1999 - 2000 (1 year)

Programmer at   IBP
1994 - 1998 (4 years)

Network Admin at   Gateway
1991 - 1993 (2 years)

Education

Morningside College
BS, Computer Science, 1993 - 1995

United States Military Academy at West Point
1989 - 1991

Honors and Awards

Postsecondary Electronic Standards Council – Distinguished Service Award - 2005

Applied Information Management Institute – Nebraska Technology Guru of the Year - 2002

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Contact Tim on LinkedIn

Tim Bornholtz
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Primary Skills: Systems Architect and Developer in PHP, Drupal, Java / J2EE, Ruby on Rails, XML

Technologies: XML Schema, XSLT, XML Signatures, Web Services, Federated Authentication (SAML)

Sun Certified Java Programmer with broad experience in architecting, designing and building scalable, high performance web applications. I have extensive real-world experience designing and deploying Web Sites, Service Oriented Architectures and Federated Authentication Architectures.

Experience:
1/2011 – Present
United States Department of Education, Office of Federal Student Aid (Washington, DC)
Application Developer

Technical team lead for a project to consolidate all student facing websites into one unified domain. The new site (http://studentloan.gov) is implemented with Drupal 7 and MySQL.

Technical team lead for a Java based web development effort to validate school eligibility under the President's Gainful Employment initiative. Directed three Department of Education employees as well as a contractor with six project team members.

3/2006 – 12/2010
The Bornholtz Group (Fredericksburg, VA)
President

Architect and lead developer of the Meteor Project, an Open Source (LGPL) web application which aggregates student financial aid information from many organizations. The data contained within Meteor encompasses 100% of the student loan volume in the United States and also includes state and federal grants as well as institutional aid. Meteor began in 2002 and I was the architect and lead developer the project for every major release.

Lead developer for Get Money Smarts (http://www.getmoneysmarts.org) a product of the Montana Guaranteed Student Loan Program. This project is a full financial literacy application with budgeting, money management, and loan management features. The project used a Content Management System as well as custom PHP with a CodeIgniter framework.

Project Manager and primary web developer for a project for the New Jersey Higher Education Student Assistance Authority (HESAA) to redesign their public web site. This project consolidated six different sub-sites within their

organization and developed a consistent look and feel across the enterprise. The site was constructed using an open source content management system and is integrated with their enterprise authentication system.

Implemented a federated identity system using Shibboleth. Shibboleth is standards-based, open source software which provides Web Single Sign On across organizational boundaries. Shibboleth is implemented in both C++ and Java. I coordinated various implementations of the software on Linux, AIX, OS390, and Windows.

10/2008 – 3/2011
Georgetown University (Washington, DC)

Lead developer of the Thebes Project, an application that brings several standard technologies together to securely exposing all manners of computational resources to users in a scalable manner. The project uses SAML2, DRMAA, JSDL and WS-Trust to tie computational resources together in a secure and easy to use manner.

4/2004 – 3/2006
United States Department of Education, Office of Federal Student Aid
(Washington, DC)
Senior System Integration Architect.

Primary technical architect for the expanded use of XML and XML Schemas within the Department of Education. Project leader responsible for defining enterprise wide access management. Work closely with business owners and senior management to identify strategic goals and risks and plan future direction of the enterprise. Coordinated with contractors to determine appropriate Java J2EE frameworks and was the government technical coordinator for the requirements and the software development lifecycle on an $800 million project which was to replace several legacy applications.

3/2002 – 4-2004
Priority Technologies, Inc (Omaha, NE)
Solutions Architect

Architect and primary developer of the Meteor Network, an open source Java web-services based tool for the financial aid community. The product queries real-time loan information from Student Loan Guarantors and Lenders to deliver a complete financial picture to schools and students. The project utilizes SAML assertions and XML Signatures as the primary security mechanisms.
Developer on a Java J2EE application to provide Student Loan Guarators with a real-time system that addresses the entire student loan guaranty process.

2/2001 – 3/2002
Central States Health & Life of Omaha (Omaha, NE)
Senior Developer

Architect and primary developer of a Unit Cost application written using Object Oriented Perl. Developed enterprise applications using both Lotus Notes and Sybase PowerBuilder.

Awards:
2005 Postsecondary Electronic Standards Council – Distinguished Service Award
2002 Applied Information Management Institute – Nebraska Technology Guru of the Year

Certifications:
Sun Certified Java Programmer
IBM Websphere Certified Solution Developer

Education:
BS Computer Science (summa cum laude) – Morningside College, Sioux City, IA
2 years as a Cadet at United States Military Academy, West Point, NY