

# Craig Zearfoss

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## SENIOR SOFTWARE ENGINEER

I am a Senior Software Engineer with over 20 years of experience in a variety of industries and products. My current assignment at Idaho National Laboratory working on a threat event ticketing system is wrapping up. In it I used Vue.js to create an application for users to define custom ticket types using editable components. I designed the Vue frontend, PHP backend, MySQL schema, and API. I am not only experienced with all aspects of application development, but have worked in a wide range of industries, such as education, administration, real estate, medical, media, and payment gateways.

I specialize in giving complex applications intuitive and functional interfaces that exceed user expectations. I like to keep the end users involved throughout the entire process to ensure that I am creating what they actually need, not just what I think they need. Applications should have seamless back-end integration and be robustly designed and tested to handle any unexpected situations.

My experience allows me the ability to design intuitive, functional, and maintainable applications that are easily customizable and expandable, but also the wisdom to not needlessly over-engineer solutions.

## SKILLS

JavaScript Frameworks	Vue.js, jQuery
PHP Frameworks	CodeIgniter 4, Laravel, Symfony2, CakePHP
Languages	PHP, JavaScript ES6 / JSX, SQL, Powershell, BASH, DOS
Databases	MySQL, Postgres (some MongoDB and Elasticsearch)
Operating Systems	Linux (Ubuntu), Windows, macOS
Servers	Nginx, Apache2
Version Control	Git, JIRA/Confluence
Additional Skills	HTML5, CSS3, DOM, JSX, Ajax, Twitter Bootstrap, JSON, REST, XML, RDF, QTI, Docker, RBAC

## **EMPLOYMENT HISTORY**

### **Pivotal Solutions (contract employee for Idaho National Laboratory)**

#### **Senior Software Developer – May 2021 to present**

- Created a Vue.js application for users to build custom tickets using a library of editable components.
- Created a Role-Based Access Control (RBAC) system to manage all user, group, and team permissions.
- Created an administrator interface for managing users, accesses, and resources.
- Upgraded a legacy website to modern PHP and Vue.js frameworks.

*Skills: Vue.js, PHP, CodeIgniter 4, MySQL, JavaScript/jQuery, BASH, JSON, Twitter Bootstrap 4, Git*

### **Lawinger Consulting, Inc. (contract employee for 3M)**

#### **Senior Software Engineer – July 2019 to May 2021**

- Worked on a team using Elasticsearch to create a rules-based validation engine for 3M product data.
- Worked on Vue.js-based interface to allow the creation of custom data-quality rules.

*Skills: PHP, MySQL, JavaScript/jQuery, Vue.js, JSON, Elasticsearch*

### **Questar Assessment Inc., Minneapolis, MN**

#### **Senior Software Engineer - September 2016 to July 2019**

- Created an application to automatically generate PDF test booklets using the XML files from statewide web-based student exams.
- Created a queuing system to submit and process PDF booklet creation.
- Created JavaScript-based customized interactions for use in a test item authoring application.
- Participated in daily scrums to plan sprints and make sure deliveries are on schedule.

*Skills: PHP, Laravel, Postgres, JavaScript/jQuery, XML, IIS, TAO, JIRA, Git, JIRA*

### **Junta LLC, Miami Beach, FL**

#### **Senior Web Developer - February 2009 to September 2016**

- Created and maintained high-traffic multimedia member websites and public tours.
- Maintained several authenticated multi-product paid subscription members areas.
- Created administrative applications for uploading images and controlling site content.
- Created PHP scripts for synchronizing data between multiple MySQL databases.
- Created an Ajax image click-tracking system using Google analytics to analyze the quality of traffic.
- Performed SEO optimization, A/B testing, and site map generation for websites.

*Skills: PHP, MySQL, Symfony2, Zend Framework, JavaScript/jQuery, Ubuntu, Nginx, Twitter Bootstrap 3, Git, SEO, Google Analytics*

### **Presens Technologies, Ltd., Winston-Salem, NC**

#### **PHP Web Developer - November 2006 to January 2009**

- Designed and created web-based leadership assessments for consulting companies.
  1. Designed and implemented the participant registration and test process.
  2. Performed complex statistical analysis of raw assessment data.
  3. Automated the generation of graphical PDF reports using PDFlib.

- 4. Created a Microsoft Excel importer and exporter for test and user data.
  - Converted an ASP/MS SQL online assessment application to PHP/MySQL.
- Skills: PHP, MySQL, JavaScript/jQuery, Microsoft SQL Server, IIS, Linux, Excel*

**Offutt Systems, Inc., Greensboro, NC**

**PHP Developer - April 2006 to November 2006**

- Converted a Linux-based real estate listing application to Windows.
  - Created bootable real estate listing CDs for delivery to real estate boards.
- Skills: PHP, MySQL, Windows, Oracle, JavaScript*

**CTG (contract employee for Lenovo), Durham, NC**

**Software Programmer/Analyst - September 2004 to March 2006**

- Managed the release of Windows OEM pre-installation software for all Lenovo computers.
  - Performed software testing, hardware upgrades, and pc maintenance.
  - Designed and created an in-house website for managing software applications.
- Skills: Windows, Windows NT, PHP, MySQL, REXX, Joomla, DOS, Lotus Notes*

**IBM Desktop Systems, Durham, NC**

**Build Automation Specialist / Component Owner - August 1995 to February 2002**

- Automated the packaging and delivery of pre-installation software to manufacturing sites.
- Tested and debugged vendor applications for Windows-based IBM desktop computers.

*Skills: REXX, Visual Basic, DOS, OS/2, Windows, Windows NT, Lotus Notes*

**IBM Network Management Products, Durham, NC**

**Functional Verification Tester - December 1992 to August 1995**

- Tested network management products on multiple network platforms.
- Skills: VM, MVS, VSE, OS/2, NetView, LAN Network Manager*

**Education**

Bachelor's Degree in Computer Science - January, 1992  
Pennsylvania State University

Bachelor's Degree in Mechanical Engineering - January, 1988  
Pennsylvania State University

**Certifications**

Google Cybersecurity – July, 2023  
AWS Cloud Practitioner – May, 2019  
PHP 5 Zend Certified Engineer – January, 2009