

Dave L. Cohen

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I am seeking a position where I can apply my range of technical skills: PHP, MySQL, JavaScript, jQuery, HTML, CSS, XML/XSL, AJAX, Apache, eCommerce. I've been working with Internet technologies for over 20 years, and have experience with a wide range of systems and software platforms. Working at both the client and server spectrums, I've built modern responsive front ends and dynamic data driven server code. I prefer small, fast-moving teams where I can make a difference. I am self-motivated and excel at working independently.

Much of the web development I've done is hand-coded, following software development standards for maintainability and structure, including object-oriented approaches, which allows for modular testing. Other work includes enhancement and customization of ecommerce sites, allowing for integration with Amazon, Google, and other third party systems. Several projects were built on VPS (virtual private servers), requiring use of SSH, Linux, Apache, .htaccess, SSL, and other skills/technologies. This is in addition to managing local test versions of sites using similar software, but on top of Windows.

By working with ecommerce sites, I've developed strong problem-solving skills over the years. These are complex systems which frequently need innovative solutions and custom coding to work exactly as desired. Good coding practices and testing are especially important to prevent conflicts with existing features. Similar skills were needed for large, complex projects such as the video-centric Bamboo Data Systems site described below.

Self-Employed Developer

428 Tanager Lane, Chapel Hill, NC 27517

Web Site Development

One site I did extensive work on was Bamboo Data Systems, at <http://www.bamboodatasytems.com>. This site provides companies and educational institutions with a comprehensive medical training system complete with video search, quiz subsystem, lecture system, and more. I hand-coded the site using PHP, HTML, CSS, Javascript, jQuery, and MySQL. The majority of the PHP code is object oriented, hiding complex SQL queries. The site boasts multi-level user access, by individual, site, or institution. Tabular data is elegantly presented with sortable data, driven by AJAX triggers and JSON data. A comprehensive administrative interface allows video management, quiz building, and user/site/institution management among its many features. A mobile front end utilizes AJAX to access server-side PHP classes, providing a large subset of functionality. A set of cron jobs automates features including emailed reports and backups.

I built and enhanced several eCommerce sites, using osCommerce and Zencart. These sites have included integration with book printers to automate order fulfillment, Fedex to streamline product shipment, Google product feeds for SEO and product listings, and even Amazon Checkout. Some of the sites utilized virtual private servers (VPS) running Linux/Apache. Additional enhancements include bar code generation and custom rolling database backups. Sites have utilized several different payment gateways, including Paypal and Authorize.net. While these eCommerce platforms have been slow to embrace responsive interfaces, I customized one osCommerce site to be fully mobile friendly.

I've built a number of other sites, including: an author's book series site, an artist's site, a horse farm site, a landscape architect's site, a house architect's site and more. These have all centered on hand-coded HTML, CSS, PHP, jQuery, AJAX, and MySQL. Features at these sites include a customized image gallery, a Javascript-based animation system, responsive interfaces, 3rd party site integration, and comprehensive administrative facilities.

Prior to focusing on PHP/MySQL development, I built a course registration system using ASP and the MS Visual Studio application framework. This used an early version of ASP that required constant fixes and workarounds. The site also integrated the Crystal Reports package for dynamic data sorting and searching.

A detailed list of sites I've worked on and their features can be viewed at my personal web site, Alleycat Software, <http://www.alleycatsw.com>.

Instruction and Course Development

I am currently doing some part time work tutoring students from high schools and colleges in HTML, CSS, Javascript, PHP, Apache and similar technical fields, as well as several math subjects. This is through Tutor.com, at <http://www.tutor.com>.

I currently teach "Database Driven Web Sites", which focuses on PHP and MySQL, as an adjunct professor at Durham

Technical Community College.

I also developed courses and projects for Instruction Set, ElementK, and SmartPlanet. These include: Visual Interdev, HTML/DHTML, VBScript, JavaScript, ASP, ADO, Apache, CGI/Perl, XML, Visual Studio, ASP.NET/VisualBasic.NET/XML, MS IIS, Object Oriented Technology, ASP, Java, C/C++, CGI/Perl, SQL Server, Apache, Visual Basic, and C++.

Software

I developed and marketed Capital Gainz, a Windows-based portfolio management system. Capital Gainz received several awards, including ones from AAI Computerized Investing and PC Computing magazine. <https://www.alleycatsw.com/capgnz.php>

Writing

I've written for a variety of technical and business publications, thus exhibiting excellent written and communications skills. These publications include Microsoft Systems Journal, Computer Language, LAN Technology, and a biweekly computing column for Triangle Business Journal in Raleigh NC.

Global Logistics Venture: Senior Software Engineer 113 Edinburgh S, Ste 100, Cary, NC 27511

I was part of the Global Architecture team that defined EDI products. I designed and developed TCP/IP client/server code to connect SunOS applications to VAX VMS, as well as a C++ library for TCP, UDP, and DECnet.

Data General: Senior Software Engineer 62 T.W. Alexander Drive, RTP, NC 27709

I led the effort to rearchitect DG's ANSI-standard SQL database manager from a proprietary operating system to a standard client/server configuration. This included constructing complete design and functional specifications for the project, based on emerging industry standards for remote database access. I used interactive and precompiled SQL access for C applications on DOS and UNIX client front-ends, which communicated with the high-performance database server.

I also designed and led the development effort for DG/SQL (relational DMBS) and INFOS (hierarchical DBMS) Connection Server products, which provided high performance and large user count support by implementing a single shared request queue architecture running over X.25, ISO TP4/IP, shared memory, or a proprietary high-speed bus.

I helped build the user interface for Data General's relational database manager, DG/SQL. This involved embedded and call-level support for several computer languages. I authored the appendix to the ANSI standard for C language SQL API.

Technical Experience:

Operating Environments: Microsoft Windows, UNIX, Linux, X Windows, Plesk, cPanel, WHM.

Web Software: PHP, MySQL, Javascript, jQuery, AJAX, HTML, CSS, XML/XSL, CGI/Perl, Bootstrap, osCommerce, ZenCart, jCarousel, eCommerce, PEAR, SSL, Flowplayer, SEO, JWPlayer, Amazon Checkout, Paypal, Authorize.net, Google Wallet, Google Product Feed, Wordpress, LEX/YACC, credit card gateways, ImageMagik, Responsive.

Education:

Georgia Institute of Technology, Bachelor of Science in Information and Computer Science. Graduated Highest Honors, with a 3.8/4.0 GPA (Co-op Plan).

Hobbies and Interests:

Bowling, carry 220+ average and have participated in several regional professional events.

Golf.

Pets: cats, dogs.