

Matthew Colf

734 418 8395 – mattcolf@mattcolf.com – www.mattcolf.com – Detroit, MI

Detail oriented with experience in software development, end-user support, hardware repair, and networking in Windows, Mac OS, and Linux environments. Passionate about the latest advances in technology and technology policy. Enjoys reading, exploring new topics, and taking on interesting and challenging projects.

Experience

Senior Software Engineer

Quicken Loans, Detroit MI
June 2013 – Present

Develop and maintain web applications, tools, libraries, and initiatives for both internal business users and development teams that encourage the use of best practices and standards compliance. Perform evaluation and research on new technologies, standards, and methodologies, in order to provide recommendations, tool sets, and libraries for internal use. Provide technical leadership to other teams in the form of standards development, code reviews, mentoring, training sessions and libraries that make it easier to follow modern best practices.

Software Developer

PayAnywhere development group, North American Bancard, Troy MI
March 2012 – May 2013

Develop and maintain web applications in support of both public facing products and internal business needs. Collaborate with stakeholders to develop time-critical solutions and features in an agile team development environment. Utilize modern best-practices and various open-source development tools and systems including PHP, Symfony, Apache, Linux, PostgreSQL, Assetic, Twig, and jQuery. Diagnose bugs and develop patches for production deployed applications.

IT Consultant

Department of Electrical Engineering and Computer Science – University of Michigan, Ann Arbor MI
September 2006 – March 2012

Work with faculty and staff to plan and develop web applications to meet their business and research needs. Provide software, hardware, and network support to faculty and students within the department of Electrical Engineering and Computer Science. Diagnose and repair Windows, Mac, and Linux computer systems. Design, maintain, and repair high-use meeting, conference, and video telephony rooms. Train, manage, and schedule student employees.

Audio & Video Technician

Michigan League – University of Michigan, Ann Arbor MI
November 2005 – May 2008

Provide audio and visual support to clients renting the building. Perform live audio reinforcement and manage video presentations for large and small scale events.

Computer Hardware Technician

Computer Aided Engineering Network – University of Michigan, Ann Arobr MI
September 2004 – April 2006

Diagnose and repair computer hardware issues. Perform Dell licensed warranty repairs. Maintain CAEN computer labs throughout the College of Engineering.

Computer Technician

Laingsburg Community Schools
November 2001 – August 2004

Maintain network services, video production laboratory, and high usage computer labs. Diagnose and repair Windows and Mac based workstations. Provide end user support for faculty and staff throughout the district.

Skills & Expertise

Extensive Experience

PHP, Symfony, Slim, Silex, Code Igniter, Android, HTML, JSON, XML, OAuth, OpenID Connect, Windows, Linux, Ubuntu/Debian, Mac OS, Adobe Photoshop, Adobe InDesign, Final Cut Pro, DNS, Git, Subversion, Doctrine, Apache, Active Directory, Wordpress

Moderate Experience

Redis, mySQL, PostgreSQL, HTML5, Javascript, JQuery, CSS, CSS3, C/C++, Ruby, Ruby on Rails, Java, SQLite, Adobe Premiere, Adobe After Effects, iOS, QT, LDAP

Some Exposure

C#, Adobe Illustrator, OpenGL

Projects

PayAnywhere Inside (Project Lead)

April 2014

Developed to replace the current PayAnywhere account management application, the new PayAnywhere Inside application serves as the first point of contact for merchant account customers to review their transaction history, observe trends, generate reports, manage their business information, and request support.

PHP, Symfony2, Twig, OAuth2, PostgreSQL, Doctrine, Solr/Apache Lucene, Ajax, JQuery

North American Bancard Federated Login System (Project Lead)

March 2013

Developed to unify the customer authentication experience across all brands, web, and mobile applications, this system implements OAuth2 standards compliant authentication endpoints. Built mostly on Symfony and Apache, it consists of several distinct applications that work together, in real time, across multiple load balanced instances – a web based accounts application, web service endpoints, database layer, Symfony dependency injection services, and a Symfony security component and firewall listener.

PHP, Symfony2, Twig, OAuth2, PostgreSQL, Doctrine

PayAnywhere Corporate Website (Developer)

December 2012

Developed by North American Bancard, PayAnywhere allows merchants to easily accept credit card payments on their Android, iOS, and Blackberry mobile devices. In conjunction with a national marketing campaign, the corporate website was redesigned from the ground up using modern best practices. As the main public facing website for PayAnywhere, this site acts as a gateway for new merchant boarding, marketing landing pages, and referral processing.

PHP, PostgreSQL, Symfony2, Twig, JQuery, HTML5, CSS3

EECS Wiki Management System (Lead Developer)

March 2012

Developed to replace an older unmaintainable wiki system, this system was written from the ground up to be maintainable, upgradeable, and easy to extend. Based on the popular MediaWiki, well known as the code that runs Wikipedia, the wiki manager incorporates features that reduce staff time requirements - including Cosign integration, dynamic group permissions, bulk permission imports, one-click site creation, and automated update scripts.

PHP, mySQL, MediaWiki, Cosign, HTML, CSS

GeoFox Service & Mobile Applications (Developer)

December 2010

The GeoFox service and applications for Android and iOS took location aware check-in applications to the next level before it was cool. By tracking user location history, correlating locations to real places, and matching history with similar users, the service was able to provide recommendations for new places to check out.

EnRoute Service & Mobile Applications (Developer)

April 2011

Developed as part of the Cloud Computing in the Commute course, the EnRoute service and suite of applications for Android, Ford Sync, and web leverage the power of location aware devices to ease the process of carpooling. Using a custom built real-time API, the application allows for instant communication, dynamic route planning, suggested stops, arrival time estimates, and route optimization.

PHP, MySQL, Code Igniter, JSON, Google Maps API, Android, Java

CashTrack Android Application (Developer)

April 2010

CashTrack is a collaborative expense sharing application for Android that allows users to create, split, edit, and share expenses with their friends in real time. Built on an extensible real-time API, users are able to create expenses at the time of purchase, select the friends they want to split with, and the split bill will pop up in each friend's phone in real-time.

PHP, MySQL, JSON, Android, Java

EECS Checkout System (Lead Developer)

June 2009

Replacing previously used paper tracking methods, this checkout system allows EECS staff to track short and long term software and equipment loans by users. By leveraging automated processes, reminders, and user history tracking, the system was able to greatly reduce the occurrence of unreturned items and save the department thousands of dollars during the first semester of use alone.

PHP, SQLite, HTML, CSS, Cosign

Education

Computer Science Engineering, BSE (2011)

University of Michigan

Ann Arbor, MI

Topics & Areas of Focus

- Back-end web (PHP, MySQL, Ruby) and web service (PHP, Json, XML, Rest) development.
- Smartphone application development (Android).
- C, C++, Java, and Ruby application development.
- Database driven development.

Noteworthy Courses

- Cloud Computing in the Commute (EECS 489)
- Development for Smartphones (EECS 498, 499)
- Web Databases and Information Systems (EECS 484, 485)
- Web Service Development (EECS 497, 498, 485)
- User Interface Development (EECS 493)
- OpenGL Computer Graphics (EECS 487)
- Cryptography (EECS 475)
- Artificial Intelligence (EECS482)
- Operating System Development (EECS 482)

Laingsburh High School (2004)

Laingsburg, MI

Activities & Community Service

- Provides freelance IT consulting, web development, and infrastructure management for multiple clients.
- Taught at summer video production camp for high school students and teachers (MIPA).
- Volunteered with high school theater groups (design, lighting, construction, and special effects).

Honors & Awards

Outstanding Customer Service Award

University Unions – University of Michigan

Graduated Summa Cum Laude

Laingsburg High School

Recipient, 1st Place Nationally for Video Production work

Journalism Education Association

Eagle Scout

Boy Scouts of America

References

Full references available by request.

“Matt has become an integral part of my research team... his [custom built] machines and advice [have] proven to be right on target. An exceptionally dedicated individual...”

"[We] have come to rely on Matt's expertise to come up with software and hardware solutions suited for individual facility and staff needs. His ability to work easily with a team and communicate high level concepts skillfully makes him a great asset..."

"Matt has done excellent work for us; his ability to work independently to resolve difficult problems, patience and professional manner, and ability to quickly take on new challenges would make him an excellent [addition] to any organization..."