

# Mark Airy

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## SKILLS

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### Languages:

Perl, shell scripts, Python, ColdFusion, PHP, jQuery, Ruby, JavaScript, SQL, HTML, CSS, C, PL/SQL, Visual Basic, Velocity, Microsoft Access, Expect, SQR, COBOL

### Databases:

Oracle, MySQL, PostgreSQL, SQL Server (2005, 2008 R2), Sybase, MS Access

### Software:

git, JIRA, Jenkins, Confluence, Stash (BitBucket Server), VirtualBox, VMware, Vagrant, Ansible, MySQL Workbench, TOAD, Vim/vi, Apache (2.x), IIS (6 & 7), Dreamweaver, HomeSite, SQL Navigator, SQL\*Plus, Eclipse, Subversion/TortoiseSVN, VisualSVN Server, ColdFusion Studio, Visual SourceSafe (5 & 6), MS Office, Visio, PuTTY, WinSCP

### Operating Systems:

macOS 10.10+, Linux (Ubuntu, RHEL, CentOS, Fedora, Xubuntu, Puppy), Unix (HP-UX, Solaris), Windows 3.11 – 10, MS DOS

## PROFESSIONAL EXPERIENCE

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### Software Engineer

#### ThreatSTOP, Inc

4/2015 – 7/2016

- Migrated GForge to JIRA ticketing system using Perl via curl to call REST APIs to export the data from the GForge PostgreSQL back end database so it could then be imported into JIRA.
- Using perl, wrote automated tests for use in a Jenkins pipeline via the Test::More library. Mocked functions where necessary.
- Developed and maintained perl scripts that ran on customer firewalls and devices which periodically downloaded custom block lists from ThreatSTOP and uploaded logs back to ThreatSTOP for reporting and analysis.
- Refactored device scripts for improved performance and ease of long term maintenance.
- Used Pull requests in Stash for code review

### Programmer Analyst, Senior

#### Kyocera International, Inc

2/2000 – 12/2014

#### *Internet Release Application*

- Developed web application which granted end users the ability to release updates to our Internet websites. Previously, releases were a manual process requiring coordination with IT staff with full server access. Saved IT staff hours of weekly support as well as made the release process quicker, easier and less error prone.
- Users could perform actions like release new or updated files, delete existing files, and roll back a release. They could schedule a release for a future date or perform the release immediately.
- System incorporated individual user logins with a permissions system granting varying levels of access.
- The web front end was written in ColdFusion which incorporated some jQuery widgets. Back end code was handled by a number of Perl and shell scripts while application data was stored in a MySQL database.

#### *Percussion Content Management System (CMS) Implementations*

- Migrated one of our existing Internet websites and multiple Intranet department sites into a Percussion CMS.
- The Internet site was implemented in Percussion CM System while the Intranet sites used Percussion CM1.
- In CM System, wrote velocity code interspersed with HTML and CSS while CM1 was more template based involving HTML and CSS along with the use of visual layout tools.

#### *Hosting Migration to AIS*

- Lead the migration of our Internet hosting from an in-house server to an external hosting provider (AIS).
- Migrated docroots of all company websites for development, test and production environments. Migrated all ColdFusion code from an Oracle back end to MySQL.
- Installed and configured VisualSVN server on the new AIS VM.
- Coordinated with the AIS staff to create the new Apache virtual hosts, Linux VM, ColdFusion installation, Samba configuration, SSL, MySQL DB instances and stored procedures.

#### *Script Utilities*

- Developed sed, awk, Perl and shell scripts to assist with daily work activities. One Perl script in particular was extremely helpful in some search tasks with specialized needs. It would return the search term found in files plus a specified number of surrounding characters.

### ***Visual SourceSafe to Subversion Migration***

- Installed and configured VisualSVN server on internal Kyocera server to replace the Visual SourceSafe repository used for version control of our Internet site.
- Coordinated the code freeze and imported the code to the new Subversion repository.
- Installed and configured TortoiseSVN on customer computers and trained customers in the use of the software.

### ***Perl script for Visual SourceSafe***

- Wrote a Perl script wrapper to assist with command-line interactions (checkin/checkout, etc.) with Visual SourceSafe.

### ***Oracle to SQL Server Migration***

- When Kyocera switched to SQL Server, all the ColdFusion web applications on the Intranet had to be updated to work with the new SQL Server DB.
- Recreated the necessary database objects in SQL Server and imported all data from Oracle to SQL Server.

### ***Art Request Tracking***

- Created case tracking system to manage all art requests and coordinate work between internal and external artists.
- Internal customers could enter requests through the application on the company Intranet while external contractors could log in to see current cases, using the application served from one of our Internet sites.
- Application was written in ColdFusion with an Oracle back end DB.

### ***ColdFusion CMS for Intranet***

- Developed custom CMS to manage content on the Intranet home page in addition to some pages it referenced.
- Users could set pages to publish immediately or in a future date as well as set a future date for the page to be archived.
- Application was written in ColdFusion with an Oracle DB back end which later became SQL Server.

### ***Internet/Intranet development and support***

- Developed web applications for all Internet and Intranet sites. Also, supported all existing applications on these sites.
- Assisted customers with content creation when needed and performed troubleshooting when issues arose.
- Supported weekly releases for all Internet sites.

### ***Installation script for Shop Floor Control system***

- To support the deployment of the Shop Floor Control system to other locations, I developed a shell script to simplify the task rather than leave it as a manual process requiring user actions.
- Script took input and unpacked the code to the desired location based on the input provided. It also performed all necessary configuration changes required to prepare the system for operation.

### ***Sybase to Oracle Migration***

- Assisted the team in migrating the SQR code for the Shop Floor Control system to Oracle.

## **Programmer Analyst**

**Qualcomm Personal Electronics**

**1/1999 – 2/2000**

### ***Shop Floor Control system development and support***

- As part of the Shop Floor Control system, I developed and maintained web reports, stored procedures, and CGI code.
- The web reports were written in the SQR scripting language while the CGI code and supporting scripts were either Perl and shell scripts. The back end DB was initially Sybase then later Oracle.

## **Programmer Analyst**

**Callaway Golf**

**1995 – 1998**

- Worked in a team to convert an Advertising application from Microsoft Access 2.0 to Visual Basic 5 and Oracle. Used Visual SourceSafe 5 for version control.
- Developed personnel tracking database for temporary personnel in Microsoft Access 97. Application incorporated field level security, job history, and performed as a hiring decision support system for HR.
- Created a graphics tracking database for Licensing using Microsoft Access 2.0.
- Supported over twenty MS Access/Visual Basic applications for numerous departments.
- Helped develop and maintain Callaway's Internet website with a fellow employee. Performed weekly updates to the site's text, graphics, and Shockwave animations.
- Developed Callaway's first Intranet website with a consultant, using Lotus Notes 4.x.

## **EDUCATION**

**San Diego, CA**

**San Diego State University**

**12/1995**

- Bachelor of Science in Information Systems with minor in Computer Science. GPA: 3.67
- Honors: Magna Cum Laude, Dean's List
- Employed throughout college to finance college expenses

**San Diego, CA**

**University of California, San Diego**

**2006**

- Java Programming certificate in progress
- Received "A" grades on all completed courses