

## **Christopher Mahan**

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### **SUMMARY**

Creative software engineer with ten years experience in the financial industry (health insurance, banking, real estate).

Strengths include building reporting systems, designing data storage systems, and interacting with users.

Successful in building user-friendly, web-based information systems.

Works well both independently and as part of a team in a deadline-driven, fast-paced environment.

- Python
- PHP
- Javascript
- ASP Classic, VBA
- SQL
- MSSQL, Oracle
- mySQL, sqlite
- CVS/SVN/HG
- (X)HTML, CSS
- Debian linux, Solaris 9
- Windows server 2003
- LaTeX, LyX, Graphviz
- Bugzilla
- XML-RPC, REST
- Mediawiki

### **EXPERIENCE**

#### **Health Net, Inc. Woodland Hills, CA**

2004 - 2009

##### **Programmer Analyst**

- Designed and built custom application framework in ASP Classic with granular role-based security, database connection wrappers, user-dependent menu, database persisted session and system variables. Used as wrapper for nine applications.
- Designed and built appeals and grievances reporting system with data filters, date-range selection, and compliance calculation (app data in MSSQL2000, user data in read-only Oracle 9 data warehouse).
- Designed and implemented web-based medical management reporting engine atop EDS-built transaction system. System included report definitions, customizable data filters, measures, submeasures, and custom column banding; drillable from national level to member listing to member detail level. App data in MSSQL 2000, user data in read-only Oracle 9 data warehouse, javascript + synchronous ajax and filter mechanisms. All table-driven. Used by medical management as primary reporting tool.
- Custom Python scripts to automate script publishing to test and production servers; CRON-triggered python scripts to monitor, maintain system on Solaris 9, Python on Solaris and ASP on Windows servers integration with XML-RPC for preemptive reporting cache optimization.

#### **Consulting**

1994 - Current

- PHP & Python enhancements to mySQL-driven video CDN broker site. Light use of jQuery.
- Provided small-business web-based database-driven applications and management reporting. (sqlite, python, php, msaccess, asp classic)
- Computer troubleshooting, software/hardware installation, over-the-phone customer support, tutoring.

#### **TLP Funding, Calabasas, CA**

2003 - 2007

### **Consultant**

- Custom web-based reporting from MSSQL database, including writing queries, understanding existing application data model
- Prepared reports to satisfy various state audit requirements
- Created Excel pivot tables and pivot charts for sales manager to enter and calculate loan officer commissions
- VBA development for advanced excel functionality, live server updating, Word automation with pywin32 (mailings, etc)
- Maintained backup systems, server maintenance. Automated maintenance in Python

### **Imperial Capital Bank, Encino, CA**

1999 - 2003

#### **DBA/Analyst Programmer**

- Database administration (Access 97, 2000, MSSQL 2000); application development (XHTML+CSS+ASP+ADO on intranet, Access97 and 2000); systems design, evaluation, development, documentation (loan Operations, audit reporting, user management); script automation (VBScript, Python, XML-RPC); user password/groups management Win/Exchange; Win2K Server+IIS setup/admin/backup + Active Directory.
- Loan databases with customized intranet reports and csv exports to MS Excel. Residential loan portfolio analysis (1000+ loans, \$120M+) with gap, delinquency, roll rates, CRA, FHLB reporting.
- Design and implementation of web-based replacement for legacy applications in security, invoicing, HR, production, mgmt real-time reporting, etc. Crystal Reports 8 and 8.5 reports and subreports, inline code logic for formatting and conditional display, parameterized queries from users.
- Custom system for ASP-based authentication, session-maintenance, granular security, and access login. PGP, AES encryption, MD5 and SHA. Setup SSL. SSH and telnet server administration. Scripted and command-line FTP. Samba, PostgreSQL, Apache 2.0, Zope & Python, PHP. Setup LAMP server on DMZ for special 4-month project.

### **National Medical Underwriting Risk Purchasing, Los Angeles, CA**

1998 - 1999

#### **DBA/Analyst Programmer**

- Design, implementation and maintenance of Access 97/2000 custom database solution.
- Design of VB software and script for task automation (automatic backups, reports).
- Design, implementation of Excel spreadsheets for executives. Implementation and maintenance of company intranet and email system.
- Staff training, development of systems operation manuals.

## **EDUCATION**

BS in Information Systems (Business option) from California State University, Northridge.