CRAIG S. MALONEY

Location:	Royal Oak, MI (USA)
e-mail:	craig@decafbad.net (preferred)
Homepage:	http://decafbad.net

Professional Summary

- 12+ years web development experience utilizing both Python and Perl.
- 20+ years experience with Linux and UNIX systems.
- Experience with all phases of the systems life cycle, including analysis, development, testing, implementation and maintenance.
- Active member of the Open Source community.

Computer Skills

Recent Languages	Python, bash shell scripting
Past Languages	Perl, Java, C
Operating Systems	Linux (Ubuntu, CentOS, Fedora)
Servers	nginx, Apache, lighttpd
Databases	PostgreSQL, MySQL, Sybase, MSSQL
Development Tools	vi/Vim, git and Subversion, GNU Utilities
Applications	Ansible, Nagios/Opsview, LibreOffice, Blender

Experience

Contractor, Intellovations November 2017–Present

- Streamlined and updated the EPAThermostat code, including multi-processing support, updates for newer versions of Python, and performance improvements.
- Updated documentation for EPAThermostat code to clarify input / output files,
- Implemented automated processes for reporting of thermostat certification data.
- Implemented automated processes for storing thermostat certification data into a database for better reporting and visibility within the team.
- Re-implemented legacy PHP codebase into a streamlined Python and Django codebase and worked closely with customer to improve and automate existing processes.
- Worked on refactoring code for forecast providers.
- Implemented multiple parsers for forecast providers that provide forecast data in JSON and HTML formats using APIs and web-based-scraping.

Web developer, Morpace January 2012–September 2016

- Worked on an 8 person team developing for and supporting several teams within the company.
- Worked on deploying many different automated processes which cleaned, de-duplicated, and mailed out survey invitations based on sample.
- Developed web-based interfaces to surface data and reports to internal customers to help with reconciling data and discrepancies.
- Interfaced Python code with SPSS via the MSSQL database to write sample data to, and read sample data from the data collection service.
- Created the back-end work-flow for Mailstorm, an internal application for mailing out survey invitations and reminders.
- Created internal libraries based on Openpyxl, xlrd, and csvfile for opening Excel and CSV files.
- Developed an Ansible deployment strategy for deploying applications to disparate systems.
- Supported internal clients with their project needs and questions relating to our applications.
- Acted as team support for Linux and UNIX-related questions, and helped set up Ubuntu machines in Virtualbox containers.

Senior Platform Support Engineer, Alcatel-Lucent December 2010–December 2011

- Worked on a team of two people (myself, and a manager) supporting a customer forum.
- Created SOAP test code in Python to exercise Sandbox functionality.
- Triaged and responded to customer requests in the forum from developers working with the Sandbox system.

System Programmer / Analyst II, Geeknet August 2008–August 2010

- Worked on a team of 6-7 system operations staff, with myself and 4-5 others sharing on-call pager responsibilities. Team was geographically diverse, and communicated primarily via Jabber.
- Converted applications to the Hosted Apps platform (Laconica, Gallery, and others).
- Assisted in many day-to-day systems administration and support tasks.
- Worked extensively at scripting with a home-grown Perl deployment methodology (mads)
- Used Perl extensively to script day-to-day maintenance tasks.
- Interfaced with support staff to resolve higher-level issues with the Sourceforge site.
- Assisted with deploying several Python projects, which used Turbogears and WSGI.
- Assisted in the conversion of our monitoring service from Nagios to Opsview (a commercial Nagios implementation).

Programmer / Subject Matter Expert, v2Soft March 2003–August 2008

- (On-site at Chrysler Corporation, LLC)
- Worked with a team of developers and customers in repairing and streamlining the MarketVision portal (an internally developed application written in Perl, Shell Scripts, and CGI in the late 90s). Developed close working relationships with our customers to help get the application to more accurately reflect their needs.
- Designed and implemented a Perl script to replace three shell scripts which loaded data from mainframe-generated flat files into a Sybase database.
- Worked with existing SQR reports to modify them to current customer needs, and generated new reports in Perl/HTML as customers developed new requirements.
- Automated and improved processes for report creation.
- Involved with the transition of the MarketVision application to the new FieldConnect portal with several offshore development teams.
- Became the subject matter expert and team leader for the group leading a team of two on-site developers, and several off-shore developers.

Programmer, Techteam September 2002–March 2003

- (On-site at Ford Motor Company)
- Took on primary developer role on the SPOC IMS (Single Point Of Contact Incident Management System) application (An internally developed application designed to adapt the GIRS ticket system currently in use at Ford Motor Company to show tickets and queues with data of interest to SPOC team leaders and technicians).
- Acquired code from former lead programmer & implemented features deemed critical for 1.0 release
- Utilized Perl and CGI to deliver both interactive and non-interactive real-time data to users.

- Utilized Perl to retrieve forms-based input from users and delivered data to GIRS system via XML transfer.
- Utilized Perl and DBI to connect to and retrieve data from Oracle and MySQL databases.
- Designed and coded programs to automatically download directory information from Corporate Directory System utilizing Net::FTP module. Program created databases automatically from a layout file provided by the Corporate Directory Server.
- Implemented left-frame snapshot statistics for queue statuses using an internally developed template system.
- Continually enhanced the system to specifications.

Technical Consultant, Techteam September 2001–September 2002

- (On-site at Ford Motor Company)
- Worked on a 5-person team tasked with a major migration task to update the GIRS system from both older hardware and software to more stable and powerful hardware and software.
- Migrated GIRS system from ARS 3.x to ARS 4.0.3. Assisted with Schema, Filter, and Active Link migration utilizing both Remedy tools, and developed tools where the Remedy supplied tools did not work well. Team received BEST award for quick and painless migration.
- Developed many small scripts to aid with data migration in both Perl and C, using the Remedy API and Perl DBD/DBI Interface.
- Developed watch-dog program to restart the server as needed, both when the database went off-line or when the server was unresponsive.
- Learned how to use and administrate the Remedy ARS system.
- Wrote several monitoring scripts using the Remedy 5.x API using C/C++.
- Implemented a CVS repository for source code control.
- Developed Perl program to "harvest" business rule notifications generated by an internally developed PL/SQL application and act upon that data for group changes, priority changes, and notifications to e-mail or page recipients.

Technical Consultant, Appnet January 2001–April 2001

- (On-site at Ford Motor Company)
- Worked on a 4-person team as a technical consultant for the eBusiness and Asset Management group. The group was formed to complete current web projects and formulate an eBusiness strategy for the Product Analysis and Verification group.
- Supported one HP-UX and four Windows NT machines in a small-scale production environment. Support for the HP-UX machine involved reloading HP-UX 11 and installing the "Properly Administered Host" tools for use with an internal Ford application.
- Migrated web sites from old Web Farm production server to new server utilizing Perl scripts to change the links.
- Administered Product Analysis and Verification sites located on the Web Farm, which included helping department page authors to move their files to production and answering author's questions.
- Assisted co-workers with questions about their ASP code and advised about designing applications for the web.
- Laid off because of budget cuts at Ford.

Technical Consultant, Appnet October 1997–January 2001

- (On-site at Ford Motor Company)
- Worked on a 10 person team as a Programmer/Database Analyst for the Systems Development and Support section of the Product Verification Systems (PVS) department, servicing the Product Analysis and Verification (PAV) department. Systems Development and Support performed a central administrative role for the PVS department.
- Migrated data from Applix Target to Maximo (a work-tracking system for the skilled trades) utilizing Excel, Access and ODBC to transfer data from Applix to Maximo's Oracle database.
- Created reports for Maximo utilizing Crystal Reports.
- Performed Perl / CGI programming for the WebTracker application to address reporting concerns for customers of the Maximo Application that were not addressed using Crystal Reports. The Web Tracker Application won Ford's "Hot Site of the Month" for November 1998, and was nominated for a Customer Satisfaction Award.
- Created the graphical location selector for WebTracker using Perl and GD.pm. Rooms on a building map would be marked with red, yellow or green depending on the work-order status of the room from the Maximo Database.
- Created graphics for WebTracker, Department Web Page, and other sites using Picture Publisher, the GIMP, and Blender.
- Transformed the Environmental Health and Safety issues (EHS) application from a Visual Basic, Oracle and Oracle Objects for OLE client/server application into a web-based application using Perl, CGI, and Oracle.
- Gathered requirements and answered technical and security questions for the Advanced Planning and Scheduling (APS) project. APS was a collaboration between PAV/Ford, i2 Technologies, and Ernst and Young to develop schedule optimization software for PAV's tests.
- Developed a front-end application using Perl and CGI to allow users to use Ford's internal Web Single Login (which allows users to use one password to access Ford web sites) with the APS Weblogic server.
- Assisted co-workers with the setup and day-to-day maintenance of the PVS departmental HP-UX development server. Used basic UNIX administration to assist in placing directories, planning out disk usage for projects, and installing Security Compliance Tools (Ford's internal security monitoring package for UNIX servers)

Support Coordinator, Appnet June 1995–October 1997

- (On-site at Ford Motor Company)
- Worked on a 15-person team as a PC technician to provide software support for PC Office Automation machines for customers working for the Automotive Safety Center (ASC)
- Served as the first point of contact for PC questions and installations.
- Performed software installations and upkeep.
- Worked with Ultrix, OSF/1 and HP-UX machines providing NFS file sharing to both PC and UNIX clients.
- Installed and configured new and old machines with Windows 3.1 and Windows 95, utilizing Ford Systems Integration Center (FSIC) provided loads as well as department customized loads.
- Customized FSIC load disks for PC-104 machines with non-standard network cards.
- Used Perl to help code and design web pages for the Safety Center, and created graphics for the web pages using Picture Publisher.

Education

Bachelor of Science in Computer Science, Hope College, Holland MI — June 1993
Remedy - Remedy ARS Administrator Training — May 2002

Hobbies

- Co-mentored two student developers during Google Summer of Code 2014 for the Bookie bookmarking project (https://github.com/bookieio).
- Participated in PyWeek 4 and 5 (PyWeek is a competition to develop a game in Python from scratch in one week). Code is available at:
  - https://github.com/craigmaloney/busybusybugs
  - https://github.com/craigmaloney/twistedtwister
- Released several applications under the GNU Public License in Python, Perl, Java, C, and others, including a word search generating program, podcatcher, and a projectile-motion game for my wife's Physics class. (Available at http://github.com/craigmaloney).
- Board member and frequent presenter for the Michigan UNIX Users Group (http://mug.org)
- Volunteer talk submission reviewer for PyOhio (http://pyohio.org)
- Maintainer of Tootstream, a command-line client for Mastodon (https://github.com/magicalraccoon/tootstream)
- Team contact for the Ubuntu Michigan Loco (http://loco.ubuntu.com/teams/ubuntu-michigan)
- Host of Open Metalcast, a music podcast featuring Creative Commons metal music. (http://openmetalcast.com)
- Former co-host of Lococast.net, a technical podcast. (http://lococast.net)

References

Available on Request.

License