

Charles E. Ross

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SKILLS

- Python deployment to web using Flask framework
- FileMaker Pro (versions 2-18, including FileMaker Server) app deployment to macOS, Windows, iOS, and web
- FileMaker plugins: Script Master, BaseElements, xmChart, SmartPill PHP 360Works Email
- AppleScript automation
- Objective-C++ deployment to macOS FileMaker plugin
- PHP app deployment to web using CakePHP framework
- Cocoa app deployment to macOS
- Xojo app deployment to macOS and Windows
- MySQL and PostgreSQL as back end stores for desktop and web apps
- XML, XSLT, and JSON for data exchange between internal client apps and external services

EXPERIENCE

Developer & Proprietor, Chivalry Software 2004 Present

- Built custom apps for clients for macOS, Windows, iOS and the web, including:
 - Gamified training app for iPhone allowing salespeople to confirm training level while competing with each other for points
 - Employee candidate assessment app for iPad administering personality tests for HR evaluation
 - Employee candidate tracking app for macOS that integrated automatic texting during hiring process
 - Accident tracking iPad app for amusement park
 - Web-based survey app with administrative interface to customize available questions and retrieve results
 - Internal support ticket app for iOS with desktop administrative console and new ticket announcements sent to Slack
 - File conversion app for accounting department to translate POS sales data into QuickBooks format
- Administer client servers, including FileMaker Server, Debian-based web servers, and Heroku
- Provide consulting to guide technology decisions

Writer, Various Publications 2000 Present

- Performed technical editing of *Xcode 5: Start to Finish*
- Performed technical editing and wrote two chapters of *The Book of FileMaker*
- Wrote programming tutorial series for *About This Particular Macintosh* using AppleScript as the student language
- Wrote programming tutorial series for *About This Particular Macintosh* using FileMaker as the student language
- Wrote article for *Macworld Magazine* about integrating FileMaker and Apple's Calendar app using AppleScript

Manager of Software Development, Bert Howe and Associates 2007 2008

- Developed custom in-house applications to track litigation progress
- Provided technical support for existing applications
- Made technology recommendations based on corporate needs

Manager of Information Systems, JobElephant.com 2006 2007

- Wrote custom in-house app to handle all business operations, including employee and client access
- Automated data exchange with vendor services
- Maintained internal macOS based server running database, file, mail, chat, web, backup, directory, and calendar services
- Provided IT support and training for employees

EDUCATION

University of California Los Angeles — Mathematics with Specialization in Computing

COMMUNITY

- Mentor at Exccercism's Python track
- Moderator on FMForums.com for 10 years
- Member of FileMaker Developers in Southern California for 3 years
- In top 10% of Stack Overflow users
- Open source projects:
 - Creator of structured-flask, a starter project for Flask with common extensions
 - Creator of alexandria, a starter project for FileMaker with common modules and custom functions
 - Maintainer of FMEasyAudit FileMaker module for automating audit trails
 - Contributor to Flask, Werkzeug, Flask-Bcrypt, Flask-Dotenv, and flask-starter
 - Creator of filemaker.vim, a Vim plugin to support FileMaker calculations
 - Creator of filemaker-textmate-bundle, a TextMate extension to support FileMaker calculations
 - Contributor to SimpleImage, a PHP library
 - Contributor to UltiSnips, a Vim plugin to support TextMate-like snippets
- Den Leader, Awards Chair, Merit Badge Councilor with Boy Scouts of America for 10 years
- Tutor for Heart of Los Angeles for 2 years
- Programming mentor with FIRST for 1 year
- Kindergarten Sunday school teacher for 2 years
- Vacation Bible School volunteer for 2 years