

Charles E. Ross

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<https://github.com/chivalry>

SKILLS

- Using AI tools, including GitHub Copilot and Replit Agent, to generate both small code additions and full applications
- Full stack web development and Salesforce org administration using Lightning Web Components with JavaScript, Apex, HTML, CSS, and SOQL
- OutSystems development with OutSystems Developer Cloud for web applications
- AI programming with Python, NumPy, pandas, and matplotlib
- Python deployment to web using Flask framework
- FileMaker Pro (versions 2-20, including FileMaker Server) app deployment to macOS, Windows, iOS, and web
- FileMaker plugins: ScriptMaster, 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
- UI/UX design with various tools (HTML/CSS, FileMaker, Xcode, Xojo)

ACHIEVEMENTS

- Arctic Code Vault Contributor - February 2020
- Mars 2020 Helicopter Contributor - April 2021

EXPERIENCE

Developer & Proprietor, Chivalry Software 2004 Present

- Built custom apps for clients for macOS, Windows, iOS and the web, including:
 - Served on development team that built a custom CRM using Replit platform to create React/Node.js/PostgreSQL stack
 - Served on development team that built a Salesforce AppExchange administrator utility for managing complex permission sets
- Lead developer, DevOps manager, and application architect for a custom CRM web app using the Salesforce's Lightning Platform
- Mentored junior developers within multiple projects and platforms
- Internal FileMaker modules for a FileMaker consultancy used across client projects
- 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
- Invoice tracking and submission system that sends electronic invoices directly to electronic payment system
- Administer client servers, including FileMaker Server, Salesforce orgs, macOS and Linux-based servers, and Heroku
- Provide consulting to guide technology decisions

Writer/Editor, Various Publications 2000 Present

- Blog posts regarding FileMaker, Salesforce and general programming skills
- 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

Developer, Productive Computing 2003 2004

Senior Developer, Metro Technologies 2000 2003

Manager of Information Systems/Database Analyst, Direct Partners 1993 1999

Manager of Information Technologies, Grey Advertising 1993 1996

INDUSTRIES

- Academia
- Accounting
- Amusement Park
- Education
- Entertainment
- Graphic Design
- Legal
- Mortgage Brokerage
- Manufacturing
- Occupational Certification
- Publishing
- Real Estate Management
- Retail

EDUCATION

University of California Los Angeles — Mathematics with Specialization in Computing

CERTIFICATIONS

- Certified FileMaker Developer
- Salesforce Superbadges:
 - Apex Specialist - February, 2021
 - Lightning Experience Specialist - February, 2021
 - Security Specialist - February, 2021
 - App Customization Specialist - March 2021
- Python (Basic) - April, 2020
- JavaScript (Basic) - April, 2020
- JavaScript Algorithms and Data Structures - May, 2020
- Responsive Web Design - May, 2020
- Git and Github Beginner to Expert - June 2021
- GitHub Ultimate: Master Git and GitHub - Beginner to Expert - June 2021
- Mastering Bash Shell Scripting - June 2021
- JavaScript Algorithms and Data Structures - October 2025

COMMUNITY

- 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 Vim, a popular text editor
 - Contributor to SimpleImage, a PHP library
 - Contributor to UltiSnips, a Vim plugin to support TextMate-like snippets
- Mentor at Exercism's Python and JavaScript tracks
- Moderator on FMForums.com
- Member of FileMaker Developers in Southern California
- In top 10% of Stack Overflow users
- 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