

Michael Edward Kupietz

Certified FileMaker Pro & Full-Stack Web Developer

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PROFESSIONAL SUMMARY

Claris-certified FileMaker Pro and full-stack web developer with 20+ years of experience in custom enterprise solution development, integrating with legacy databases, modern web technologies, cloud infrastructure, as well as custom development for content management frameworks such as WordPress. **Currently seeking reliable long-term, ongoing or permanent opportunities.** Excels both as a lead developer and collaborative team member on multi-year projects for enterprise clients, managing production environments that process over 100,000 transactions monthly with 99.9% uptime. Agile learner known for creative problem-solving, excellent communication with nontechnical stakeholders, plus robust experience in systems administration and IT support, with server and network admin experience.

EMPLOYMENT HISTORY

Principal FileMaker Pro, Full Stack Web & WordPress Engineer, Lead IT Support Engineer

Techtonics Inc. • 2016-2018, 2023-present

Provided bespoke FileMaker platform app development, WordPress and full-stack web hosting and development, and managed IT support services for varied clients of established Bay Area Managed Services Provider.

- Develop & support custom FileMaker Pro systems for small business through enterprise MSP clients, including original design and development and modernization and upgrades to legacy systems
- Perform complex WordPress data migrations, freeing clients from vendor custom theme lock-in
- Provide custom FileMaker Pro Server and web front-end, PHP, and server administration, development, upgrades, and support
- Provide ongoing on-call onsite and remote hardware and networking support for diverse range of business clients
- Provide email deliverability consulting and SPF, DKIM & DMARC configuration and advice

Lead FileMaker Pro Database Engineer *Chrisad, Inc • 2016-2023*

FileMaker Pro database architect and developer for enterprise dental practice marketing corporation. Developed and managed complete feature lifecycle from initial architecture through multiple major upgrades, including integrations with SQL and numerous web services.

- Responsible for upgrades and maintenance to complex legacy FileMaker Pro Server system (5000+ fields, 110+ tables) processing approximately 5000 daily transactions including MIS, client and staff calendaring, time tracking, CRM, and staff communications for 80 onsite users plus offsite sales teams
- Responsible for reliable daily operation and maintenance of FileMaker Server hosted on Amazon EC2
- Integrated 8+ external services including CyberSource payment processing, Twilio two-way SMS APIs, SurveyMonkey, Gmail, and proprietary SQL-based marketing tools via ODBC
- Developed comprehensive PHP/Twilio integration for SMS-based field sales team communications handling web-published sales report distribution and programmatic SMS group communications handling of up to 50+ daily SMS messages
- Implemented automated scheduling system managing 1000+ monthly appointments
- Implemented complex financial reporting, audit logging systems, and real-time reporting dashboard reducing manual report generation time by 75%

Principal FileMaker Pro Platform & Full-Stack Web Solution Developer *part time, freelance • 1998-2016*

Outside of primary positions, founded and operated successful independent software development consultancy specializing in providing FileMaker Pro platform development and server administration, full-stack web solutions, WordPress development, complex system integrations, and enterprise solutions on an

on-call or as-needed basis.

- Architect and deliver mission-critical applications handling data volumes of 250,000+ records while maintaining strict security and compliance requirements.
- Advise on, develop, and support mission-critical solutions for clients ranging from nonprofits and startups to Fortune 500 companies.
- Manage concurrent long-term projects for multiple enterprise clients while providing ongoing support for established systems.
- Representative Long-term/Recurring Commitments:
 - **3D Media Group (2002-2016)** On-call FileMaker Pro database and web development including event registration system supporting 800+ daily participants, office database development, and PHP template-based online website catalog
 - **Smith, Hampton & Devlin (1998-2015)** On-call FileMaker Pro database improvements and technical support for core business systems of staffing company
 - **Pacific Digital Image (full-time onsite 2002, on-call upgrades and maintenance 2003-2009)** Authored and maintained FileMaker Pro job tracking database system in 24/7 use at 50-workstation digital prepress house
 - **Liberation Prison Project (2006-2009)** On-call FileMaker Pro MIS database development and support for nonprofit providing educational programs to incarcerated populace

Lead IT Support Engineer *Impact HUB • 2012 - 2014*

Solely responsible for all aspects of management, support and troubleshooting of IT operations for 5,000 sq. ft. co-working space serving 200+ daily workstation users and 35+ small business tenants, including all networking, hardware, software, and digital telephony equipment.

- Administered and maintained hybrid large network environment including:
 - MacOS & Windows workstations and servers
 - Cisco Meraki cloud-managed network infrastructure & access points
 - 5+ onsite laser printers including HP & Brother
 - Enterprise VOIP phone systems
- Provide ongoing support for diverse small business clients of the facility
- Achieved 99.9% network uptime and 98% first-call resolution rate for support requests

FileMaker Pro Database Development Team Member *International Technologists, Inc. • 2011 - 2012*

Development team member for several enterprise client projects for FileMaker consulting firm.

- Worked onsite on team performing 4-month database overhaul for shelving display department of Cost Plus World Markets
- Worked hybrid onsite/remote on database overhaul and upgrade for model shop of Apple, Inc.

Lead FileMaker Pro Database Engineer *Part time • SF Pretrial Diversion Project • 2011-2015*

Led development of mission-critical FileMaker Pro client tracking systems for county pretrial diversion programs, 10-16 hrs/week.

- Managed sensitive legal data for 500+ program participants
- Provided weekly onsite development and support averaging 10 hours/week
- Implemented strict data handling protocols meeting county legal requirements

Lead Clinical Healthcare FileMaker Pro Database Engineer *WestCoast Children's Clinic • 2008-2009*

Lead development and customization of HIPAA-compliant clinical FileMaker Pro database system serving 100+ psychotherapists in 4 Bay Area counties.

- Implemented Federal EDI compliance features processing 2500+ monthly records
- Developed patient records management and HR systems
- Created automated notification system handling 500+ daily alerts for therapists

FileMaker Pro Database Development Team Member *Soliant Consulting • 2004 - 2007*

Development team member for multiple enterprise client projects for leading FileMaker Pro consulting firm.

- Worked onsite on team performing 6-month FileMaker 7 upgrade for The Gap's photo studio digital asset management system
- Developed centralized maintenance ticketing system used nationally across all Apple, Inc. campuses

IT Director, Lead FileMaker Pro Database Engineer, & Webmaster

Full time/part time • Green Tortoise Adventure Travel • 1998-2012

Directed complete IT infrastructure and custom software development for international travel tour operator. Solely responsible for all aspects of technology operations and infrastructure including FileMaker database development, systems development, network administration, and managing and developing web presence.

- **IT Director & Infrastructure Management:** Administered multi-location network serving 13+ workstations, maintained 99.9% system uptime across SF office and remote Seattle office
- **Web Operations & Webmaster (1997-2007):** Solely directed, developed and maintained 130+ page company website including HTML, CSS, JavaScript, interactive PERL CGI scripts such as message boards and contact forms with spam-prevention features, SEO optimization that increased organic search traffic over 200%
- **FileMaker Pro Database Development:** Developed integrated system of 35+ databases processing 500+ daily transactions for all customer reservations of complex multi-leg tour booking operation, and office MIS, accounting, and communications systems

REPRESENTATIVE PROJECTS

These are a representative sample of other successfully completed projects. A comprehensive unabridged project history, broken down by type and business sector, is available on my website at <https://www.kupietz.com/project-history/>.

Selected Database and Data Science Projects & Achievements:

- **Advanced FileMaker Pro Stock & Options Trade Analysis & Management Platform**
 - Architected sophisticated FileMaker-based trading system integrating multiple brokerage and financial analytical platforms
 - Developed original FileMaker-based OAuth implementation for stockbroker API authentication
 - Created automated risk management system handling position sizes up to \$50K
 - Built interactive options risk visualization tools using custom JavaScript library integration with FileMaker webviewer
- **Enterprise FileMaker Pro Biotechnology Research Integrations**
 - Developed automated PDF data extraction and collation for FDA-complaint pharmacovigilance reporting system processing 50+ monthly CIOMS forms for human cancer research trials
 - Created integrated scientific study data management platform and biotech research lab management systems, supporting development of a patent that later sold for \$1B
 - Developed database for organizing and tracking stored human cell line samples in nitrogen-cooled freezers for cancer medication research & development
- **FileMaker Pro Small Business & Nonprofit Projects**
 - Designed & Implemented iPad-based CRM app for retail using FileMaker Go
 - Designed & Implemented customer reservations, accounting, and office messaging apps for adventure travel company
 - Designed & Implemented Inventory and invoicing system for movie prop rental house
 - Designed & Implemented student placement system for nationwide non-profit exchange program

Selected Web Development and Server/Network Admin Projects & Achievements:

- **Enterprise and Front-End Web Development**
 - Authored node.js self-documenting automated Selenium WebDriver QA unit testing framework (github.com/kupietools/mekphrame-automated-web-testing)
 - Grew tour operator's website from 7 static HTML pages to 150 interactive pages including FileMaker database-generated schedules, and PERL customer testimonial boards, chat room, contact forms, and spam-prevention scripts
 - Developed complex jQuery-based Greasemonkey-compatible userscripts for sophisticated, generalized web content filtering (github.com/kupietools/webcooler-userscript) and functional enhancements to cryptocurrency research tools (github.com/kupietools/DYORAssistant)
 - Developed custom PHP webhooks for Twilio/FileMaker integration handling 1000+ monthly SMS communications

- Created original PHP single-purpose web app framework for portable media asset management and integration with Google search (Currently demoed as a custom web fact-checking tool, github.com/kupietools/BS-Detector)
 - Authored javascript-based "retro computing"-style terminal emulator for browsing web via innovative command line interface front end (michaelkupietz.com/cli.html)
 - **WordPress Development**
 - Developed extensive custom front-end functionality in PHP, HTML, CSS, and jQuery, receiving 100% Google Pagespeed Best Practices and Accessibility scores
 - Authored custom PHP function and page caching implementation using WP transients and object cache, leading to a 99% Google Pagespeed Performance score
 - Authored 15+ custom Wordpress plugins (See Github repos at michaelkupietz.com/?p=29547)
 - Authored dynamic content generation shortcodes including complex media gallery customizations, custom permalink modification and redirects, and dynamic menu generation from category tree, and user-selectable content embedding templates via URL parameters which respect Content Security Policies via .htaccess rules
 - Authored complex back-end Admin UI modifications in PHP including automatic logging of updates to theme and plugin files and in-place renaming and downloading of PHP files from theme and plugin editor screens
 - **Server/Network Administration**
 - Administered Windows Amazon AWS EC2 instances hosting FileMaker Server
 - Solely set up and administered LAMP web server running on Debian 12 VMware Fusion VM for several years, including all server setup and maintenance, public-facing network connectivity, and uptime monitoring
 - Configured and managed SSL certificates, DNS, Cloudflare and Quic.cloud CDN integration
 - Managed & administered all hardware, software, & IT operations (computers, server, backups, & connectivity) for 13-workstation travel company office for 15 years
 - Solely provided end-user support and maintained all hardware and network connectivity (wifi, ethernet, & internet) throughout 5,000 sq. ft. coworking space using Cisco Meraki cloud-managed routers & access points for 18 months
- Windows servers & backup systems for a variety of businesses

PROFESSIONAL CERTIFICATIONS

- **Certified Expert FileMaker Pro App Developer** [Clariss](#)
- **Certified Associate FileMaker Pro Server Administrator** (*top available FM Server certification*) [Clariss](#)
- **Certified Javascript Algorithms And Data Structures Developer** [FreeCodeCamp](#)

ASSOCIATIONS & LEADERSHIP

- FileMaker Pro Developer, **Burning Man Festival Organization** - Provided volunteer FileMaker development, support and training
- Group Discussion Leader, **Berkeley Mac User Group's FileMaker Pro Special Interest Group**
- Actively involved in **Indieweb** Homebrew Website Club (events.indieweb.org/tag/hwc) developer groups on a regular ongoing basis, giving demos and participating in developer discussion sessions
- Active open-source developer on **Github** (github.com/kupietools)
- Three semesters **Electronic Music Studio Manager and Teaching Assistant to electronic music pioneer Prof. Joel Chadabe**, managing and instructing students in new Mac-based MIDI system at **North America's first Electronic Music Studio** at SUNY Albany

EDUCATION

BA in Natural Sciences with concentration in Physics Bard College, Annandale-on-Hudson, NY

Coursework: Physics, Acoustics, Electronic Engineering, Calculus, Computer Science, Electronic Music

Senior Project: "On the Mathematical Modeling of Lowest-Mode Sounding Frequency of Uniform-Bore Fipple Flutes", Advisor: Prof. Burton Brody

TECHNICAL EXPERTISE

Database & Data Architecture

- FileMaker Pro (certified)
- FileMaker Pro Plugins
- FileMaker Server (certified)
- JSON
- Legacy Systems Updating
- Microsoft Excel Financial Modeling & Analysis
- PDF Parsing/Data Extraction
- Relational Database Design
- Scripting & Automation
- SQL/MySQL/MariaDB
- XML & XSLT

Web Technologies

- FileMaker Pro PHP Custom Web Publishing, WebDirect
- Front-End Automation & Testing
- Full-stack LAMP Development, Deployment & Administration
- HTML, CSS, JS, PHP, Node.js, jQuery, PERL
- SEO
- Selenium WebDriver
- WebHooks
- WordPress Custom Plugins, Shortcodes, & Theme Customization Development

AI Tools & Prompt Engineering

- Claude Code
- Cursor AI IDE
- ChatGPT
- Google Gemini Deep Research

IT Administration & Support

- Amazon AWS
- AppleScript
- Atlassian Jira
- Automation tools
- BASH / Shell Scripting
- CloudFlare CDN
- Cisco Meraki Cloud-Based Access Points
- Docker
- LAMP server admin
- Linux/Debian
- MacOS
- NAT & Router Config
- TCP/IP Networking
- VMware/Virtualization
- VPN
- Windows

System Integrations

- Communications/SMS REST APIs (Twilio)
- Electronic Data Interchange
- Email API Integrations (Amazon SES, Gmail, Office365)
- OAuth Client Authentication & Token Management
- ODBC
- Payment Processor SOAP APIs (Authorize.net, Cybersource)
- Fintech/Stock Brokerage/Sales Transaction REST APIs (TD Ameritrade, Schwab, Avalara)

Regulatory Frameworks

- CIOMS & FDA Compliant Medical Trial Reporting
- HIPAA Compliant Data Security