

# Michael Edward Kupietz

Certified FileMaker Pro & Full-Stack Web Developer

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Github: [github.com/kupietools](https://github.com/kupietools) • Creative Technology & Arts showcase: [michaelkupietz.com](http://michaelkupietz.com)

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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, IT Support Technical Lead

*Tech Tonics, Inc. • 2016-2018, 2023-present*

Provided bespoke FileMaker platform app application development, WordPress and full-stack web hosting and development, and managed IT support services and training 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

### Principal FileMaker Pro Solutions Architect & Lead Developer *Chrisad, Inc • 2016-2023*

Architected and delivered full-SDLC FileMaker Pro Pro database solutions for enterprise dental practice marketing corporation.

- Responsible for modernization, upgrades, and maintenance to complex legacy FileMaker Pro applications (5000+ fields, 110+ tables) processing approximately 5000 daily transactions including MIS, CRM, client and staff calendaring, time tracking, and staff communications for 80 users.
- Developed and managed complete feature lifecycle from requirements gathering and initial architecture through post-launch user support
- Integrated 8+ external services including CyberSource payment processing, Twilio two-way SMS APIs, SurveyMonkey, Gmail, and SQL-based marketing tools via ODBC
- Oversaw and trained assistant FileMaker developer and company staff on FileMaker techniques, development practices, and use.
- Responsible for reliable operation and maintenance of FileMaker Server hosted on Amazon EC2
- Developed custom web publishing integrations including PHP webhooks for Twilio integration for FileMaker-driven SMS team messaging app, handling web-published sales report distribution, and programmatic SMS group communications handling and tracking up to 50+ daily SMS message between staff and clients.
- 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 Application & Full-Stack Web Solution Architect & Lead Developer**

*Self-Employed • 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 Engagements:
  - **3D Media Group (2002-2016, occasional projects thru present)** 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 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 onsite development of mission-critical FileMaker Pro client tracking systems for county pretrial diversion programs, 10-16 hrs/week.

- Provided weekly onsite FileMaker development, upgrades, and support averaging 10 hours/week
- Managed sensitive legal data for 500+ program participants
- 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 (1998-2007):** 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, Modeling, and Automation 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
- **Other Data Science, Modeling, and Automation Projects & Achievements** (These projects and others are available at <https://github.com/kupietools>)
  - **Liquidity Pool Simulator** Excel decentralized finance model simulating a Uniswap AMM liquidity pool, using exact calculations from Uniswap Core contracts. Observe pricing, slippage, liquidity pool token issuance, and impermanent loss transaction-by-transaction.
  - **Motley Fool Recommendations Performance Analyzer** An Excel financial model that allows you to analyze the track record of Motley Fool stock recommendations, to model the results of imperfect trade execution under real-world conditions
  - **Home Assistant Lighting YAML-generator** A card for the Home Assistant home automation server's interface displaying the YAML config code for all current lights for easy scene creation
  - **Filtaquilla Mailbox Opener JS** A Javascript Action filter action for use in Thunderbird's Filtaquilla plugin to open folders in new windows when they receive new incoming mail
  - **OS X Security Lock** A context-aware BASH script to manage securely locking a MacOS user session, designed to be triggered by an environment monitoring utility

- **Terminal-Notifier Bridge for Thunderbird** a MacOS BASH script to receive information from Thunderbird plugins and use it to display customizable notifications for incoming emails via terminal-notifier.app
- **Format FM Calc Automator Workflow** A MacOS Automator wrapper for a classic BASH script to visually format FileMaker Pro calculations for easy readability, in any app in the system, even outside of FileMaker, using a system service

## 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](https://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](https://github.com/kupietools/webcooler-userscript)) and functional enhancements to cryptocurrency research tools ([github.com/kupietools/DYORassistant](https://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](https://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](https://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](https://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** [Claris](#)
- **Certified Associate FileMaker Pro Server Administrator** (*top available FM Server certification*) [Claris](#)
- **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](https://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](https://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 EXPERIENCE OVERVIEW

### Database & Data

#### Architecture

- FileMaker Pro (certified)
- FileMaker Pro Plugins
- FileMaker Server (certified)
- JSON
- Legacy Systems Updating
- Microsoft Excel (Data analysis, financial modeling, vlookup, Pivot Tables, Charting)
- PDF Parsing/Data Extraction
- Relational Database Design & Normalization
- 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, JavaScript, PHP, Node.js, jQuery, PERL
- SEO
- Selenium WebDriver
- Web Hooks
- WordPress Custom Plugins, Shortcodes, & Theme Customization Development

### AI Tooling

- Claude Code
- Cursor AI IDE
- Github Copilot
- Google Gemini 3 Pro & Deep Research
- MS Excel Shortcut AI add-in

### IT Administration & Support

- Amazon AWS (EC2, S3, SES)
- AppleScript
- Atlassian Jira
- Automation (Make, Notion, N8N, Unqor)
- Backup strategies (rsync, ditto, rsnaphot, BackBlaze)
- Cisco Meraki Cloud-Based Access Points
- Domain & DNS Admin incl. CloudFlare
- Email Admin & Deliverability (SPF, DKIM, DMARC)
- Docker
- LAMP server admin
- Linux/Debian Shell (BASH, ZSH, PERL, regexp, cron)
- MacOS, Windows & Linux Desktop & Server
- NAT & Router Config
- TCP/IP Networking
- Virtualization (VMware, VirtualBox, Qemu)
- VPN

### 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/SOAP APIs (TD Ameritrade, Schwab, Avalara, Authorize.net, CyberSource)

### Regulatory Frameworks

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

## Representative Businesses & Sectors Served:

**Sectors served:** Biotechnology • Education • Events Management • Financial & Stock Market • Government Programs & Public Sector • Healthcare - Medical & Dental • Legal • Marketing • Nonprofits • Performing Arts • Digital Prepress, Graphics, & Publishing • Real Estate & Property Management • Retail • SaaS • Travel & Tour Operators

### Enterprise

- Apple, Inc. - facilities department (subcontract for Soliant Consulting)
- Apple, Inc. - model shop (subcontract for International Technologists)
- Crystal Bioscience, Inc.
- The Gap (Subcontract for Soliant Consulting)

### Nonprofit & Arts

- Adopt International
- The Fabulist
- GroundSpark
- De Staebler Studio
- Lamplighter Theater
- Lawyer's Alliance For New York
- Northern California Regional Organization of Child & Adolescent Psychiatry

### Medium & Small businesses (Up to 100 employees)

- 3D Media Group
- Adler & Co.
- Brandon Partners
- C&N Tractors
- Castex, Inc.
- Chrisad, Inc.
- Cobracheck, Inc.
- Impact Hub (subcontract through

- Genentech, Inc.
- Immune Design, Inc.
- Kaiser Permanente, Inc.
- Immune Design, Inc.
- University of California, San Francisco - Ombudsman's office
- Cost Plus World Market (subcontract for International Technologists)

### **Education**

- 150 Parker School
- Empact Online
- Innovative Education Management, Inc.
- Wright Institute

- Planet Drum Foundation
- Sausalito Art Festival Foundation
- SF Pretrial Diversion Project
- National Radio Project
- Terry Knickerbocker Studio
- One Smart Kid

### **Consulting Agencies**

- Soliant Consulting, Inc.
- International Technologists, Inc.
- Solomon Solutions
- Tech Tonics, Inc.
- Sarai.org

- Madrone Studios
- Orchard Nursery
- Pacific Digital Image, Inc.
- Pacific Doorcraft
- Plexxikon, Inc
- SF Landmark Signs
- Smith, Hampton, & Devlin
- Untamed Path Adventures
- Van Acker Construction, Inc.
- Westcoast Children's Clinic
- Westin Building Exchange (subcontract for Solomon Solutions)
- William Stout Architectural Books