CALVIN YOCKEY

Principal Software Engineer | Healthcare Systems & Automation
Fayetteville, AR
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SUMMARY

Senior software engineer with 40+ years of experience designing, building, and operating complex systems across healthcare IT, imaging, EMR, networking, and embedded environments. Known for delivering end-to-end solutions independently, reverse-engineering closed systems, and automating workflows that save organizations thousands of hours and significant operational cost.

CORE EXPERTISE

Healthcare IT (EMR, RIS, PACS, Imaging)
Systems Architecture & Automation
Reverse Engineering & Legacy Integration
Performance Optimization & Scalability
Database Design (PostgreSQL, SQL Server)
Linux / UNIX / Windows (95–11)
Networking, PBX, Firewalls, Imaging Systems

PROFESSIONAL EXPERIENCE

Principal Software Engineer / IT Director — Gulf Coast Medical Center (2013–2025)
Led all software and systems development across four medical facilities.
• Created provider-centric, customizable EMR front end for eClinicalWorks, reducing documentation time and increasing throughput.
• Automated HEDIS coding and claims enrichment, saving many staff hours and improving accuracy.
• Built real-time insurance eligibility and copay tools improving collections and efficiency.
• Reverse-engineered and integrated Practice Fusion and eClinicalWorks.
• Designed and implemented a complete RIS to replace a commercial system.
• Rewrote internal EMR software to add eRX and automated visit-note cataloging.
• Replaced legacy PBX/fax systems with FreePBX, saving thousands per month.
• Managed PACS servers, firewalls, databases, and inter-site connectivity.

Senior Software Engineer — Medical Manager (1995–2013)
• Developed FDA-certified PACS server and diagnostic imaging viewer sold commercially.
• Built document imaging system deployed to thousands of customer sites.

Software Developer — Walmart (1993–1995)
• Rescued failing enterprise claims system via high-performance middleware caching layer.
• Built early Linux-based document imaging system including custom device drivers.

Software Developer — University of Arkansas (1991–1993)
• Developed proprietary OS for barcode-testing automation deployed to tens of thousands of USPS locations.

Independent Consultant (1978–Present)
• Reverse-engineered eClinicalWorks encryption for provider-centric workflows.
• Wrote embedded firmware in 6809 assembly for parking meters.
• Built assembly-line QA automation system adopted company-wide at Emerson Electric.

EDUCATION

M.S. Computer Science, University of Arkansas
B.A. Psychology, University of Arkansas

TECHNOLOGIES

Languages: C#, Python, C, C++, SQL, Assembly, VBA
Databases: PostgreSQL, SQL Server
Platforms: Linux, UNIX, Windows

WORKING STYLE

One-person engineering team from concept through production. Strong focus on measurable outcomes and operational efficiency. Comfortable owning legacy, regulated, and mission-critical systems.