

DAVE CULP, RN, BSN

CLINICAL INFORMATICS | REGISTERED NURSE | HEALTHCARE IT | DATA ANALYTICS | WORKFLOW IMPROVEMENT

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PROFESSIONAL SUMMARY

Registered Nurse and healthcare systems professional combining clinical practice, healthcare IT, clinical education, data analytics, software integration, and process improvement. Brings bedside clinical judgment together with systems analysis, SQL and business intelligence, application integration, adult learning, and technical problem-solving to bridge clinical operations and technology. Experience includes clinical workflow, patient safety, healthcare performance data, data quality, system and process optimization, technical troubleshooting, and translating requirements among clinical, technical, operational, and leadership stakeholders. Active Colorado RN with a BSN, a BS in Statistics and Mathematics, and formal data science training.

CORE CAPABILITIES

Clinical Informatics & Healthcare IT | Clinical Workflow Analysis | EHR/EMR & Clinical Information Systems | Workflow Mapping & Optimization | Patient Safety & Quality Improvement | Clinical Education & Adult Learning | Healthcare Analytics | Clinical Data Analysis | Data Quality & Validation | SQL & Relational Databases | Systems & Requirements Analysis | Systems Integration & APIs | Process Improvement | Root-Cause Analysis | Implementation & Adoption Support | Technical Documentation | Stakeholder Management | Cross-Functional Translation

TECHNICAL TOOLKIT

Clinical & Healthcare: EHR/EMR environments, clinical documentation, patient handoffs, emergency/acute/procedural workflows, HEDIS, Leapfrog, Medicare/Medicaid data

Analytics & Data: SQL, Microsoft SQL Server, SSMS, Power BI, Power Query, Excel, PivotTables, Python, SAS, DB2, statistics

Systems & Integration: relational data mapping, REST APIs, systems analysis, requirements analysis, data validation, process mapping, Microsoft Visio

Development: C#/.NET, Angular 14, JavaScript, HTML/CSS, Git

Enterprise & Operations: SAP, InEight Control, Microsoft 365/SharePoint, Jira (working familiarity), Microsoft Project (prior experience)

PROFESSIONAL EXPERIENCE

Financial Analyst and Engineering Process Controller | Kiewit Infrastructure Engineering

Lone Tree, Colorado | Nov 2023 - May 2025

- Managed recurring financial reporting, reconciliation, billing, variance analysis, and engineering process-control work across multiple revenue centers and operating groups in the United States and Canada.
- Used SAP, InEight Control, Excel, Power BI, Power Query, and Python-assisted analysis to validate data, investigate discrepancies, trace issues to source data or process breakdowns, and support corrective follow-through.
- Partnered across Finance, Engineering, Project Controls, IT, and Operations to clarify business rules, improve handoffs, document standard work, and translate complex financial and operational information into decision-ready summaries.

Medical Education Consultant | EdCor Medical Training & Education

Lakewood, Colorado | W-9 Contractor | Jan 2018 - Nov 2023

- Delivered CPR, First Aid, Basic Life Support for Healthcare Providers, Medical Math for Allied Health, and adjunct ACLS/PALS education to more than 1,500 healthcare and community learners.
- Applied adult-learning methods, demonstration, return demonstration, scenario-based practice, coaching, and skills validation; trained and supported more than 30 instructors across varied professional settings.
- Developed Adobe PDF-based class rosters and administrative forms that improved documentation handoffs, certification processing, and course-record accuracy; supported certification and recertification for complete ski-patrol staffs across multiple Colorado organizations.

Full-Stack .NET / Angular Developer | York Solutions - WEX / Optum Engagements

Remote | Jul 2022 - Feb 2023

- Developed and maintained C#/.NET APIs connecting existing relational-database data to Angular 14 front-end applications.
- Mapped, transformed, and validated data across database, API, and user-interface layers; used SQL to investigate source data and troubleshoot data-integrity, integration, and application-functionality issues.
- Worked with Angular, C#/.NET, SQL, JavaScript, HTML/CSS, REST APIs, Git, and Agile/Scrum practices in a collaborative software-development environment.

Senior Ski Patroller | Medical Training Specialist | Keystone Ski Patrol

Keystone, Colorado | Seasonal: Oct 1995 - Apr 1998; Oct 2003 - Apr 2017; Sep 2017 - Apr 2022

- Provided advanced emergency medical response, patient assessment, incident prioritization, treatment, documentation, and transport coordination in a mission-critical mountain environment.
- Completed and maintained National Ski Patrol Outdoor Emergency Care (OEC) training during active patrol service, applying structured patient assessment, stabilization, trauma and medical emergency care, extrication, and environment-specific decision-making in mountain rescue settings.
- Earned National Ski Patrol Certified Ski & Toboggan qualification, demonstrating advanced alpine skiing, rescue-toboggan handling, patient transportation, terrain management, and operational judgment in challenging mountain conditions.
- Promoted four times during the first two Keystone seasons to Level IV, the highest line-patroller level, reflecting rapid progression in operational capability and trust.
- Rookie of the Year (1995–1996); four-time Patroller of the Year (1998, 2013, 2015, 2016).
- Coordinated personnel and transport resources, and supported evacuation by toboggan, snowmobile, snowcat, ground ambulance, and helicopter.
- Performed hazard mitigation, incident documentation/investigation, search and rescue, avalanche rescue, lift evacuation, avalanche-control support, and snow-safety evaluation while maintaining clear radio communication and patient handoffs.
- Served as a medical trainer for approximately 15 years and as Medical Training Specialist during the final full-time assignment, translating medical standards and operational protocols into practical field instruction and coaching.

Registered Nurse | Cross Country Staffing

Colorado | Feb 2017 - May 2017

- Performed rapid patient assessment, prioritization, stabilization, medication administration, monitoring, procedural support, escalation, and handoff for patients with acute and complex clinical needs.
- Integrated laboratory results, medications, diagnostic findings, procedures, and interdisciplinary communication into safe, timely clinical decision-making and continuity of care.
- Quickly learned facility-specific clinical workflows, documentation systems, staffing models, and care processes, allowing effective integration into unfamiliar teams and practice environments.
- Collaborated with physicians, nurses, and ancillary staff to coordinate care, communicate changes in patient condition, and support efficient transitions across emergency, procedural, and outpatient settings.

Network & Systems Administrator (Contract) | CarePoint PC

Greenwood Village, Colorado | Feb 2010 - Feb 2013

- Provided technical direction, user support, training, and infrastructure administration for a healthcare-practice environment, reporting strategy and implementation developments to senior leadership.
- Administered Windows Active Directory, Microsoft Exchange, user permissions, endpoints, Cisco routers/switches, and network services including DNS, DHCP, VPN, IP addressing, and terminal services; applied HIPAA-aligned network-security practices.
- Supported Polycom videoconferencing, Cisco Unified Communications, structured cabling, office-expansion technology, network monitoring/troubleshooting, and development of .NET/VBA utilities and Excel-based models.

Agency Registered Nurse | Nursefinders – an AMN company

Colorado and Missouri | Feb 2002 - Feb 2010

- Delivered contract RN care across emergency, PACU, gastroenterology, operating room, telemetry, pre-op, interventional radiology, radiology with moderate sedation, and clinic environments.
- Adapted rapidly to new facilities, patient populations, clinical protocols, documentation systems, and team dynamics while applying assessment, prioritization, procedural support, patient education, documentation, and handoff skills.

Agency Registered Nurse | All About Staffing

Denver, Colorado | Sep 2003 - Dec 2004

- Provided agency nursing coverage across Denver-area healthcare settings, adapting to local clinical protocols, documentation practices, staffing models, and patient-care requirements.

Director of Information Technology & Services | Gateway Business Health Coalition

St. Louis, Missouri | Dec 2001 - Jun 2003 | Additional responsibility: Leapfrog Patient Safety Liaison

Formerly St. Louis Business Health Coalition

- Aligned IT strategy, infrastructure, and technical programs with organizational priorities and communicated project status and technology needs to the Executive Director and Board of Directors.
- Led redesign and migration of WAN/LAN infrastructure and consolidated 18 Microsoft Access database applications into Microsoft SQL Server using a phased migration approach; performed systems analysis, systems design, and database development.
- Established the organization's Internet domain and internal email/server environment, developed its first website, implemented T1 connectivity and centralized network-attached storage, and strengthened backup/recovery, disaster-recovery planning, Cisco firewall administration, and network documentation.
- Served as Leapfrog Patient Safety Liaison, supporting healthcare-performance and patient-safety work involving claims/utilization, Medicare and Medicaid data, HEDIS, Leapfrog measures, and hospital-performance reporting.

Emergency Department Registered Nurse | Barnes-Jewish Hospital

St. Louis, Missouri | Jun 2000 - Jun 2003 | Full-time through Dec 2001; agency thereafter

- Provided emergency nursing care in a Level I trauma-center environment, performing rapid assessment, prioritization, intervention, monitoring, documentation, and escalation across high- and low-acuity presentations.
- Served as a clinical documentation super user during the transition from paper-based charting to the A800 electronic medical record, supporting frontline adoption, workflow troubleshooting, documentation consistency, and end-user questions in a high-acuity Emergency Department.
- Gained early hands-on experience with clinical-system implementation, workflow change, end-user adoption, and electronic documentation, helping clinicians adapt patient-care processes to a new digital environment.
- Collaborated with attending and resident physicians and interdisciplinary teams to identify injuries and medical conditions, obtain histories, implement treatment plans, and maintain safe continuity of care.

Critical Care Technician / Nurse Intern | St. John's Mercy Medical Center

St. Louis, Missouri | Jan 2000 - Jun 2000

- Supported direct and indirect patient care in ICU, CCU, and burn-unit settings in collaboration with registered nurses and physicians, reporting changes in patient condition promptly.
- Performed ECG/EKG testing, assisted with burn dressing changes, maintained clinical documentation and medical records, and supported unit supply management.

Systems Engineer | Harris Corporation

Scott Air Force Base, Illinois | Part-time | Aug 1998 - Jan 2000

- Developed and maintained components of the Global Decision Support System supporting USTRANSCOM and Air Mobility Command logistics for refueling, cargo, and personnel transport.
- Developed relational-database queries and supported encrypted communication of sensitive information across secure, unclassified, and commercial networks; worked with Microsoft Internet Information Services (IIS) and Active Server Pages (Classic ASP).
- Produced system-design and user-interface documentation and held a Secret/SCI government security clearance for the assignment.

Market Research Analyst (Contract) | Direct Mail USA

St. Louis, Missouri | Jun 1998 - Oct 1999

- Analyzed sales, consumer-credit, and campaign data to support direct-mail targeting, lead-list development, market segmentation, customer profiling, and media-channel decisions.
- Extracted large datasets, performed quality checks and transformations, prepared model-ready data, and evaluated campaign/media performance against sales and default outcomes.

IBM | Boulder, Colorado

Nov 1993 - May 1997 | Three progressive technical and analytics roles

Business Data Analyst | Oct 1996 - May 1997

- Built analytics infrastructure for system metrics, logs, billing, service data, metadata, and related operational information; queried DB2 databases using SQL in SAS and performed data profiling, statistical analysis, reporting, and visualization.
- Collaborated across departments to define analytics use cases, aggregate raw data, and produce operational findings for operators, support engineers, and customer-success teams.

Network Operations Center (NOC) Analyst | May 1995 - Oct 1996

- Analyzed, ranked, and troubleshoot network alerts and error conditions; coordinated responses to service-affecting events, outages, escalations, planned changes, and vendor issues using command-line scripts, audits, and cross-team communication.

Technical Support Specialist / Team Lead | Nov 1993 - May 1995

- Provided Tier 1 technical support to approximately 25,000 enterprise users across Southern Pacific Railroad (~20,000 employees) and Commerce Bancshares (~5,000 employees), troubleshooting Windows, mainframe, OS/2, hardware, software, and network-connectivity issues; promoted within three months to Team Lead leading an eight-person support team.

SELECTED HEALTHCARE PRODUCT & WORKFLOW PROJECT

CommonThread | Course-Based Applied Project - Transition into UX for Healthcare

Healthcare UX / workflow project

- Developed a patient-led, encounter-based healthcare experience concept connecting patients, caregivers, clinicians, and care coordinators through private, role-specific reflections and structured synthesis.
- Mapped clinical journeys, user needs, communication gaps, handoff failures, privacy concerns, and operational risks to define a more usable and adoption-ready care-coordination model.
- Applied human-centered design, workflow analysis, information architecture, stakeholder-perspective mapping, and iterative feedback to translate clinical needs into product and process requirements.

SELECTED COMMUNITY & LEADERSHIP EXPERIENCE

Voting Member, Long-Range Planning Committee | Littleton Public Schools - Contributed to review of facilities, program capacity, enrollment boundaries, transportation/routing, and major capital-equipment needs supporting five- to ten-year planning.

PTO Vice President | Founder, Raspberry Pi Computer Club | Mark Twain Elementary School - Led committees and fundraising, served as a family/executive-board liaison, and founded a Raspberry Pi club by developing curriculum, procuring equipment, and instructing participants.

Additional leadership: head and assistant youth soccer and softball coaching with responsibility for practices, player development, safety, parent communication, and event coordination.

EDUCATION & LICENSURE

- Registered Nurse - Colorado - Active
- Bachelor of Science in Nursing, cum laude - Saint Louis University
- Bachelor of Science in Statistics and Mathematics - University of Missouri-Columbia
- Certificate in Data Science - Thinkful