



David M. Everly Jr

Software Engineer • Acute Care Nurse Practitioner

MSCS, MSN, CRNP, AGACNP-BC

<https://www.dmeverly.com>

PROFESSIONAL SUMMARY

As a Software Engineer with more than ten years of experience working as an Acute Care Nurse Practitioner in Critical Care and Emergency Medicine, I bring a unique perspective to the intersection of technology and healthcare. My professional interests are centered around applied artificial intelligence, healthcare innovation, and security. I am especially passionate about risk mitigation, which I address through thoughtful design and rigorous testing of critical software systems. In addition to my formal education in Computer Science and Computational AI, I am pursuing ongoing self-study in AI red teaming. This training is aimed at deepening my understanding of how systems respond and potentially fail under stress, enabling me to anticipate vulnerabilities and strengthen system resilience.

SYSTEMS & TECHNICAL FOCUS

Security Engineering · Zero Trust · Applied Machine Learning · Workflow Automation · Penetration Testing

SELECTED PROJECTS

SynapSys

- Designed modular LLM orchestration framework for rapidly deploying AI agents using a common API
- Integrated support for foundation model queries using Gemini and Ollama API

Portfolio Chatbot

- Built a RAG LLM system with pre/post guard pipelines and deterministic fallback
- Demonstrates trust-boundary enforcement and guarded interaction patterns while served with public endpoint

Additional Engineering Work

- Designed, built, and analyzed several open-source ML powered systems which are available on GitHub
- Several workflow optimization projects, including Epic documentation workflow improvements and employee scheduling systems

CLINICAL & OPERATIONAL EXPERIENCE

WellSpan Pulmonology & Critical Care Medicine — Nurse Practitioner 2019–Present

- Independently manage high-acuity adults with critical medical and surgical pathology
- Perform advanced procedures and lead real-time clinical decision-making
- Identify and address workflow, documentation, and system inefficiencies as an Epic Physician Builder
- Preceptor for advanced practice clinicians and trainees

Hershey Medical Center Emergency Medicine — Nurse Practitioner 2017–2019

- Emergency medicine practice in high-volume, academic, level 1 trauma center

Registered Nursing Roles 2013–2017

- Progressive care, emergency medicine, cardiopulmonary step-down, clinical instruction

EDUCATION

M.S. Computer Science — Drexel University 2022–2026

Graduate Certificate, Computational AI — Drexel University 2024–2025

M.S. Nursing — The Pennsylvania State University 2015–2017

CREDENTIALS & RECOGNITION

CompTIA Security+ 2026

Epic Physician Builder 2024

Adult-Gerontology Acute Care Nurse Practitioner-Board Certified 2017

Registered Nurse 2013

Advanced Practice Provider of the Year — Hershey Medical Center 2019

Graduate Fellowship — The Pennsylvania State University 2023

ENRS Abstract — Heart Failure Terminality and End-of-Life Decision making 2017