

ANDREW CASTOR

Infrastructure & Security Engineer · Cloud Security · Healthcare IT · Network Infrastructure

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U.S. Citizen · **Eligible for Security Clearance**

PROFESSIONAL SUMMARY

Infrastructure and security engineer with 2+ years deploying healthcare IT and secure networks in production and austere field environments. Built end-to-end offline-capable EMR systems, hardened access controls, and trained 50+ users. CompTIA Security+ and Network+ certified. Pursuing B.S. Information Technology at UCF (NSA CAE-CD) with accelerated M.S. Cyber Security & Privacy track. Targeting cybersecurity, cloud, and information security analyst roles.

WORK EXPERIENCE

Medical Missionaries of Divine Mercy · Houston, TX

Lead Systems Engineer / Implementation Lead · 2023 – Present

- Led end-to-end deployment of an offline-capable EMR (OpenEMR migrated from XAMPP to a hardened Linux VM), replacing 20+ years of paper-based workflows across six clinics and ten patient stations in a four-building site.
- Redesigned the platform from scratch as a custom Node.js / SQLite / React application after identifying constraints OpenEMR could not satisfy in the field; runs as a single systemd-managed service with hourly automated SQLite backups.
- Designed and deployed a 50,000 sq. ft. Wi-Fi 6 mesh network across four buildings using business-grade infrastructure hardware.
- Implemented RBAC, ACLs, TLS/HTTPS encryption, and least-privilege access controls; engineered secure cloud sync via Microsoft Entra ID and SharePoint.
- Mapped workflows across Registration, Triage, Medical, Vision, Dental, and Pharmacy; delivered go-live support and trained 50+ users, reducing patient intake delays by 30–40%.
- **Costa Rica Field Deployment (April 2026):** deployed an offline LAN running the custom clinical platform in an austere, no-internet environment, supporting full-cycle traveling clinic operations for 1,121 patients across a 40-hour clinic week.

CERTIFICATIONS

CompTIA Security+ · CompTIA Network+ · Google IT Support Professional Certificate · **In Progress:** Microsoft AZ-500

EDUCATION

University of Central Florida · Orlando, FL · B.S. Information Technology (CECS) · *Expected Fall 2028* · Accelerated M.S. Cyber Security & Privacy track

Houston City College · Houston, TX · A.S. General Science (*Conferred 2026*) · A.A.S. Artificial Intelligence (*GPA 3.8, National Honor Society, Conferred 2025*)

TECHNICAL SKILLS

Cloud & Security: Microsoft Azure · Entra ID · Microsoft 365 · SharePoint · IAM/RBAC · ACLs · TLS/HTTPS · least-privilege design · vulnerability management

Infrastructure: LAN/WAN · Wi-Fi 6 mesh · DHCP/DNS · Active Directory · Linux server administration

Healthcare IT: Offline-first clinical systems · Custom EMR (Node.js · SQLite · React) · OpenEMR · OpenMRS

Programming & Tools: Python · C# · JavaScript/TypeScript · PowerShell · SQL · Git/GitHub · AWS (learning) · Splunk SIEM (home lab) · TryHackMe SOC L1

PROJECTS

AI-Based Fall Detection System (*Academic*) · Real-time fall detection model using TensorFlow Lite on Raspberry Pi 5; deployed inference to a Flutter mobile app for real-time alerts.

NewsBot 2.0 · NLP and sentiment analysis pipeline for news classification using Python.

Emergency Evacuation Guidance Device (*Academic*) · Battery-powered embedded system on Raspberry Pi 4 with real-time temperature sensing and Dijkstra's algorithm-based dynamic route rerouting.