

Terina Seltzer

Software Developer | U.S. Air Force Veteran

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PROFESSIONAL SUMMARY

Software developer and U.S. Air Force veteran with a B.S. in Software Engineering and 10+ years of prior military and civilian IT experience. Builds full-stack, database-backed, and distributed applications using Java, Spring Boot, TypeScript, SQL, and REST APIs. Recent work includes a Hyperledger Fabric application with layered authorization, a three-node Raft ordering cluster, observability, and 50+ automated tests.

TECHNICAL SKILLS

Languages: Java, Kotlin, Python, TypeScript, JavaScript, SQL, HTML, CSS

Frameworks: Spring Boot, Angular, React, Node.js, Thymeleaf, JPA/Hibernate

Data & Platforms: MySQL, H2, Firebase Firestore, Hyperledger Fabric, Docker

Tools & Practices: Git/GitHub, REST APIs, Prometheus, OOP, automated testing

SELECTED PROJECTS

Blockchain-Based Veterinary Records Management Application

Jul 2026–Present

Java | Spring Boot | Hyperledger Fabric | Prometheus

- Designed a two-organization Hyperledger Fabric network with identity-bound authorization and chaincode ownership checks, allowing only the verified current owner to transfer an animal record.
- Migrated the ordering service to a three-node Raft cluster and verified fault tolerance by terminating the elected leader during an active operation and confirming automatic failover.
- Reworked a startup connection cache into a lazy, database-backed lookup for horizontal scaling across two API instances; added Prometheus metrics, structured logging, connectivity health checks, and 50+ offline automated tests.

Task Management Six Quadrant Matrix

May 2026–Jun 2026

TypeScript | Vite | Object-Oriented Design

- Designed and developed a TypeScript task-management application with reusable components for creating, assigning, prioritizing, and monitoring work.
- Implemented a six-quadrant prioritization workflow that lets users reorganize tasks as urgency, importance, status, and scheduling needs change.

Pet Adoption & Volunteer Management App

Feb 2026–Mar 2026

Java | Kotlin | Firebase Firestore | Android

- Developed a full-stack Android application that centralized pet-adoption listings and volunteer coordination with real-time updates, validation, and end-to-end CRUD functionality.
- Implemented role-based access control and secure session handling, enforcing role-specific permissions to prevent unauthorized access.

Inventory Management System

Aug 2025–Dec 2025

Java | Spring Boot | Thymeleaf | JPA/Hibernate | H2

- Developed an inventory-management application for parts and finished products, enabling users to create, update, track, and remove inventory records.
- Implemented persistent relational storage and object-relational mapping with Spring Boot, Thymeleaf, JPA/Hibernate, and H2.

PROFESSIONAL EXPERIENCE

Family Caregiving and Homeschooling | Lashmeet, WV

Feb 2013–Apr 2023

- Managed eight years of homeschooling through individualized lesson plans, curriculum and schedule coordination, progress tracking, and instruction adapted to changing educational needs.

PC Support & Systems Administrator | Virginia Tech Library Systems Inc.

Apr 2010–Jan 2013

Blacksburg, VA

- Administered Windows and Linux servers, user accounts, permissions, updates, network services, and performance monitoring to maintain secure and reliable operations.
- Resolved hardware, software, operating-system, and network-connectivity issues through root-cause analysis, device configuration, documentation, and escalation.

Network & Systems Administrator | United States Air Force

Mar 2000–Mar 2008

Various Locations

- Deployed, administered, and maintained secure network systems in remote, high-tempo operational environments.
- Held an active TS/SCI clearance during military service while complying with stringent information-security requirements.
- Supported and maintained base-level web applications using HTML, CSS, and ColdFusion.
- Diagnosed network and system issues to restore mission-critical services and trained up to eight personnel in administering, troubleshooting, and maintaining region-wide server systems.

EDUCATION

Bachelor of Science, Software Engineering

Apr 2023–Mar 2026

Western Governors University | Remote

Associate of Science, Information Technology

Mar 2000–Mar 2006

Community College of the Air Force | Maxwell AFB, AL

Military technical training in network administration, Windows and Linux systems, server operations, and information security.

CERTIFICATIONS

AWS Certified Cloud Practitioner | CompTIA Project+ | WGU Front-End Developer | WGU Back-End Developer

VOLUNTEER EXPERIENCE

Crisis Counselor | Crisis Text Line

Jul 2024–Present

- Provide real-time written support using active listening, empathetic communication, collaborative problem-solving, crisis de-escalation, and safety-focused resource referrals.