



Emily D. Carpenter

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Education & Certifications

- M.S. Data Science, Data Engineering Specialization (Expected May 2026)
Regis University, Anderson College of Business and Computing, Denver, CO – GPA: 3.97
- B.S. Computer Science, Summa Cum Laude (December 2023)
Regis University, Anderson College of Business and Computing, Denver, CO – GPA: 3.95
- CompTIA Security+ (2025)

Research Experience:

- Graduate Research Contributor – GENESIS Project (January 2026 - Present) Regis University, Department of Marketing and Data Sciences
 - Principal Investigators: Dr. Douglas Hart and Dr. Kellen Sorauf
 - Designed and implemented a PostgreSQL database, Python ETL module (ForgeDB), and multiple SQL views to support persistent storage and cross-experiment analysis of LLM agent cooperation data. Authored comprehensive researcher documentation for long-term project maintainability.
 - Designed and tested a containerized architecture for portable deployment of the GENESIS research platform leveraging Lightweight Kubernetes (K3s), Ansible, Docker, and GitHub Actions.

Presentations:

- Carpenter, E. D. (2026, February). ForgeDB: Database design and ETL pipeline for studying emergent cooperation in LLM agents. Presented at MSDS 692 Data Science Practicum I, Regis University, Denver, CO.
- Carpenter, E. D. (2026, April). Containerized architecture design for portable deployment of GENESIS intelligent agent research framework. Presented at MSDS 696 Data Science Practicum II, Regis University, Denver, CO.

Technical Skills:

- Languages ♦ Python & Java (academic), Oracle PL/SQL, Microsoft T-SQL, Bash, PHP (code review) PeopleCode (code review), COBOL (code review).
- Databases ♦ Oracle Database, Microsoft SQL Server, PostgreSQL.
- Tools ♦ Git/GitHub, VS Code, Linux (Ubuntu, Debian, Manjaro), Ansible, Kubernetes (K3s), Docker, Toad; SQL Developer, PeopleSoft Application, BMC Helix ITSM/Dashboards.
- Other ♦ Agile/Waterfall Methodologies, Jira, ETL Pipeline Development; DB Schema Design.

Professional Experience

GENERAL DYNAMICS INFORMATION TECHNOLOGY, INC.

JULY 2018–CURRENT

- Configuration Analyst Principal / O&M Tier III Support Analyst (February 2026 - Present)
- Senior Data Analyst / Helix Reports Administrator (June 2025 - February 2026)
- Senior ERP Analyst / Tier III Senior Software Support Technician (July 2022 - June 2025)
- Senior ERP Analyst / Senior Business Analyst (June 2018 - Jun 2022)

CHIEF PERSONNEL SPECIALIST, U.S. NAVY

FEBRUARY 1995–JUNE 2018

- 23+ years of service including leadership roles aboard USS Arleigh Burke (DDG-51), PCU Gerald R. Ford (CVN-78), Navy Recruiting District Seattle, and HQ Special Operations Command Europe. Retired as Chief Petty Officer.