Meaghan Fenton

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SKILLS

Data Analytics • Healthcare Data • Data Visualization • Data Quality • Machine Learning • Python • Excel • Canvas • Gato • MySQL • HTML • CSS • Angular • TypeScript • Snowflake • Computer Vision • Natural Language Processing • Git • Agile Methodologies (Scrum) • TensorFlow • Pandas • Academic Support • Student Assessment & Feedback

COURSES SUPPORTED

HI 3311 Databases in Healthcare • HI 4401 Advanced Health Informatics and Security • HIM 2360 Medical Terminology • HIM 3301 Hospitals and Health Systems • HIM 3390 Principles of Management • HIM 4370 Finance and Reimbursement Methodologies • HIM 4385 Health Information Management Practicum

PROFESSIONAL EXPERIENCE

Graduate Instructional Assistant Jan 2025 – Aug 2026

Texas State University | Department of Health Informatics & Information Management

- Evaluated and graded a wide range of student work, including assignments, quizzes, discussion posts, reflections, and examinations, providing detailed, timely feedback that supported student learning and helped achieve course objectives.
- Supported undergraduate instruction in Health Informatics and Information Management courses through grading, student feedback, course administration, and academic support.
- Provided academic support to students by clarifying assignment expectations, answering course-related questions, and reinforcing key course concepts and learning objectives.
- Proctored examinations, upholding academic integrity and ensuring a smooth, fair testing process for all students.
- Assisted with managing departmental social media channels by meeting weekly to plan and coordinate content that enhanced student engagement and improved communication.
- Supported updates to the department website by revising existing information and adding new content, ensuring information remained accurate, accessible, and up to date.
- Assisted with transitioning the department website to the new Calico template within Texas State's content management system, enhancing accessibility, usability, and overall user experience.

Data Analyst Intern Jun 2026 – Jul 2026

ExperINS Insurance Brokerage

- Cleaned, validated, and organized data from multiple sources to ensure data quality and accurate client reporting.
- Analyzed client renewal and prospect data to develop reports, compare plan options, and support data-driven decision-making.
- Compiled and transformed client data using Excel into reports, charts, and presentation materials for internal stakeholders and client meetings.
- Streamlined manual workflows by documenting repeatable processes and implementing process improvements to increase efficiency and consistency.
- Collaborated with cross-functional teams to deliver analytical support across multiple concurrent client projects while meeting tight deadlines.

Application Developer Jul 2023 – Dec 2024

Veterans Affairs Canada | Modernization Project

- Contributed to the development of a user-facing application that allowed Veterans to view and manage information related to their disability benefit applications.
- Developed and integrated custom scripts to enhance functionality, responsiveness, and usability of web components.
- Collaborated with designers and other project stakeholders to align functional enhancements with the overall aesthetic and usability goals of the web pages.
- Implemented front-end designs for multiple web pages using Angular, HTML, and CSS.

- Converted existing Akita queries, stores, and services to NGRX patterns, enhancing state management and improving application scalability.
- Served as Scrum Master, facilitating agile development processes, team communication, and collaboration.

Artificial Intelligence Application Developer May 2020 – Jun 2023

Veterans Affairs Canada | *Artificial Intelligence Team*

- Developed a Computer Vision program to detect and highlight handwritten and typed information on medical forms, supporting more efficient review of health-related documentation.
- Trained multiple object detection models using Azure Databricks to identify specific characteristics of medical forms, aiding processing agents in making decisions on disability benefit applications.
- Documented service endpoints with Swagger API Documentation to provide clear and accessible technical references.
- Developed a Python-based sentiment prediction program using Natural Language Processing (NLP) to classify social media comments as positive, negative, or neutral. The program analyzes hundreds of comments weekly, reducing manual analysis time by two hours each week.
- Developed an age demographic estimator in Python using historical baby name data to estimate the age range of social media commenters and support audience analysis.
- Served as Scrum Master, facilitating agile development processes, team communication, and collaboration.

Student Artificial Intelligence Application Developer May 2019 – Apr 2020

Veterans Affairs Canada | *Artificial Intelligence Team*

- Implemented an object detection model using TensorFlow to accurately identify the Canadian flag and support automated recognition of government forms.
- Developed an object detection model using TensorFlow to recognize and extract values from audiology tables, automating the processing of health-related data and saving results in CSV files for further analysis.
- Developed a Python program using Natural Language Processing (NLP) to flag emails containing potentially harmful content, supporting timely identification and response to critical communications.

EDUCATION

Master of Science in Data Analytics and Information Systems Aug 2026

Texas State University, Round Rock, Texas

Bachelor of Computer Science (Specialization in Data Analytics) May 2020

Acadia University, Wolfville, Nova Scotia, Canada

LEADERSHIP EXPERIENCE

Treasurer and Lead Technical Trainer – Level Up, *Texas State University* Apr 2025 – Aug 2026

Co-Founder, Treasurer – Women in Tech Society, *Acadia University* Jan 2019 – May 2020

Website Manager – Women in Science & Engineering, *Acadia University* Sep 2019 – May 2020

Computer Science Representative – Women in Science & Engineering, *Acadia University* Sep 2017 – May 2020

VP Communications – Make-A-Wish Canada, *Acadia University* Sep 2017 – May 2020

SCHOLARSHIPS, HONORS & AWARDS

Invited to Join Beta Gamma Sigma, *Texas State University Chapter* Jul 2026

Texas State Graduate Merit Fellowship, *The Graduate College, Texas State University* Jan 2025

Creativity and Innovation Team Excellence Award, *Veterans Affairs Canada* Jul 2022

Rookie of the Year Award, *Veterans Affairs Canada* Jul 2020