Henry Bednarz

650-250-6730 • bednarzhenry@gmail.com • Boston MA/Palo Alto CA • github.com/henrybednarz

EDUCATION

Northeastern University, Khoury College of Computer Sciences   *Sep 2023-Present*
Candidate for B.S. in Computer Science and Mathematics, expected graduation May 2027

Honors:	3.77/4.00 GPA	Dean's List
Coursework:	Object-Oriented Design, Algorithms and Data, Artificial Intelligence, Supervised/Unsupervised and Reinforcement Machine Learning, Linear Algebra, Differential Equations, Group Theory, Discrete Structures

Coursera, *Open.AI Machine Learning Specialization*   *Jul 2024-Sep 2024*
Received Certificate

TECHNICAL KNOWLEDGE

Languages:	Python, Java, JavaScript, TypeScript, HTML, CSS, Racket, ACL2s, Lisp
Tools/Packages:	TensorFlow, Flask, React, Git, NumPy, MS Power Platform, MS Office, SPSS

WORK EXPERIENCE

Business Automation Co-op • Scotiabank   *Jul 2025-Present*
- Deploy automated solutions for internal clients meeting specialized business requirements to improve efficiency.
- Create and present clear, concise dashboards and reports to a variety of audiences, leveraging strong data modeling and visualization skills to support business automation projects.

AI For Trusted Science • Water Horizons   *Sept 2025-Present*
- Developed a standalone application for an environmental consultant that created a Retrieval-Augmented Generation (RAG) model from a Zotero research paper library, enabling the LLM to provide detailed, scientifically grounded answers with direct document citations.
- Engineered a seamless user experience by integrating Local Models and API keys for enhanced privacy and customization, allowing users to interact with a knowledge base built from their personal documents.

Software Developer • Cashmere (cashmereAI.com)   *Feb 2025-May 2025*
- Developed an AI-powered web scraper that dynamically generates Python scripts to source, save and extract data from thousands of public legal documents.
- Utilize Large Language Models (LLMs) for sentiment analysis; identify potential clients based on legal case relevance and predictive analytics to support client acquisition strategies.

PROJECTS

FreeNEU • Boston, MA   *Sep 2024-Present*
- Created a full-stack, user-friendly web application that allows the Northeastern community to track and receive notifications for free promotional products offered on campus.
- Implemented a ReactJS frontend with an intuitive, appealing interactive; Developed a REST API backend using a PostgreSQL database for data storage and management.

Cambio Agents • Boston, MA   *Feb 2025-May 2025*
- Developed AI agents using deep Q-Learning, ExpectiMiniMax and Monte Carlo Tree Searching algorithms to optimize decision making for the card game, Cambio.
- Leveraged TensorFlow and NumPy packages to implement and train deep Q-Learning networks in python.

INTERESTS

Competitive Volleyball, Backpacking, Project Euler, Pickleball and Coffee