

Henry Bednarz

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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: 3.79/4.00 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, OpenCV, Selenium, Microsoft Office, SPSS

WORK EXPERIENCE AND PROJECTS

Software Developer • Cashmere (cashmereAI.com) Feb 2025-Present

- Develop an AI-powered web scraper that dynamically generates Python scripts to source, save and extract data from 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.

University Math Tutor • Northeastern University, Boston, MA Jan 2025-Present

- Tutor students in differential equations, linear algebra and other courses.
- Tailor lesson plans to ensure students meet academic goals; earned client rating of 4.7/5.0.

FreeNU • 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 React JS front end with an intuitive, appealing interactive map using bootstrap and Google Maps; developed a REST API server with Python and Flask, using a PostgreSQL database for data storage and management.

Cambio Agent • Boston, MA Feb 2025-Present

- Developed AI agents using Q-Learning, ExpectiMiniMax and Monte Carlo Tree Searching algorithms to optimize decision making for the card game, Cambio.

LEADERSHIP

Student • National Outdoor Leadership School (NOLS) Jun 2023-Jul 2023

- Backpacked 130 miles over 28 days through the Wyoming Wind River Mountain Range.
- Learned and practiced wilderness survival, risk management and leadership skills.

Gunn High School Robotics Team, Business Manager Aug 2021-Mar 2023

- Led 50-person team to meet business goals; balanced \$45K annual operating budget.
- Recruited sponsors to secure equipment and training; wrote and applied for team grants.

Head Volleyball Coach • Fletcher Middle School, Palo Alto, CA Mar 2023-Jun 2023

- Coached full volleyball season; organized and ran daily practice for 12-member team.
- Managed all logistics and communicated with families to ensure a fun, successful season.

INTERESTS

Competitive Volleyball, Project Euler, Backpacking and Tea