

Benjamin Bremer

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CS & Econ student with >1 yr ML R&D experience seeking full-time employment starting Jan 2027

EDUCATION:

Rochester Institute of Technology (RIT) | Rochester, NY Expected Graduation December 2026
Computer Science BS, Economics BS | GPA: 3.7
RIT Dean's List; RIT Presidential Scholar Fall 2022 - Present

SKILLS:

Languages: Python, SQL, Java, C, C#

Machine Learning: neural networks, computer vision, generative artificial intelligence, retrieval-augmented generation, natural language processing, Scikit Learn, PyTorch

Tools & Platforms: Git, Azure Databricks, RestAPI, agile, scrum, Streamlit, Numpy, Pandas

Other: experimental design, statistical analysis, exploratory data analysis, image augmentation

PROJECT AND RESEARCH EXPERIENCE:

Internal RAG Chatbot January 2026-March 2026

- Built data ingestion pipelines for structured R&D database and hundreds of technical documents
- Developed framework of AI agents in Databricks to increase data retrieval speed by 10x
- Improved reliability metrics of multiple agents to 95+% with data cleaning and prompt engineering

Defect Detection ML January 2026-March 2026

- Performed experiments to improve ML model from ~80% specificity and F1 → ~98%
- Worked on team of 5 to bring app from 0 → deployed in 3 months; scrum master for 2 sprints
- Developed ETL process for large-scale production data

Semantic Segmentation for Geometric Analysis August 2024-August 2025

- Performed image augmentation to create viable dataset from minimal samples
- Trained DL model to recognize internal features; developed code to perform geometric analysis
- Enabled 95% faster data collection with Streamlit app

Material History Visualization June 2025-August 2025

- Deployed Streamlit app to save users ~30 mins per query for material history and formulation data

Resume App April 2026-Present

- Built a web app that tracks job applications and uses an LLM to tailor resumes and cover letters
- Utilized vector search to identify relevant experience based on job description

Research - Economics of AI R&D in Waste Management August 2023-Present

- Created an economic model of a waste-generating firm that accounts for cost and benefit of AI R&D
- Analyzed the economic viability of many AI applications in waste management
- Presented at AERE 2025 and SEA 2025 conferences; Under journal review at Waste Management

WORK EXPERIENCE:

CoorsTek - Machine Learning Intern (R&D) | Golden, CO June 2024-March 2026

- Developed ML, DL, and GenAI tools that accelerated R&D timelines and empowered customers with direct access to critical project data
- Pioneered DL, GenAI, and Databricks-based solutions within the company

RIT - Student Lab Instructor | Rochester, NY August 2023-May 2024; August 2025-Present

- Support students throughout in-person problem solving, lab work, and individual tutoring
- Assist instructor in helping students develop a fundamental understanding of CS concepts and coding

VOLUNTEER AND LEADERSHIP EXPERIENCE:

Cru Club President and Student Leadership January 2023-Present