

Ryan Bowering

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GitHub [@bowerirn](#) | LinkedIn [@rbowering](#)

Education

University of Rochester (Rochester, NY)

Aug. 2025 - Present

PhD in Computer Science, AI Concentration

Rose-Hulman Institute of Technology (Terre Haute, IN)

Sept. 2021 - May 2024

BS in Computer Science, Minors in AI, Math, Data Science, Music

GPA: 3.91

Skills: Python, PyTorch, Deep Learning, Pandas, Scikit-Learn, Java, C, SQL, JavaScript, MATLAB

Work Experience

Los Alamos National Laboratory (Los Alamos, NM)

July 2024 - July 2025

Student Researcher, Data Analysis

- Built generative AI models to generate shock waveforms that matched given specifications
- Exceeded state-of-the-art methods in realism and speed
- Published results in a lab-internal research journal

Rose-Hulman Institute of Technology (Terre Haute, IN)

Nov. 2023 - Feb. 2024

TA/Grader

- Helped professors grade assignments for MA474 Theory of Computation
- Held in-person office hours to help students with classwork

Cummins Inc. (Columbus, IN)

June 2023 - Aug. 2023

Software Engineering Intern

- Completely automated the External Recipient registration process for update notifications
- Applied Scrum/Kanban and used Python, React.js and AWS Lambda and APIGateway

Projects

Alert Infrastructure for IOT Devices (CSSE Department Award)

Sept. 2023 - May 2024

- Created an infrastructure-as-code system in Python to streamline writing alerts for IOT devices
- Built a Slack bot to send alert notifications and interact with data in Snowflake

AI-Generated Image Detector [GitHub](#)

April 2023 - Nov. 2023

- Trained neural networks with Python to classify real and AI-generated images
- Achieved a testing accuracy of 98% by fine-tuning a Vision Transformer model

Evolutionary Data Modeler [GitHub](#)

Aug. 2023 - Sept. 2023

- Evolves equations to model input data with a tunable genetic algorithm
- Derived Kepler's third law using his available planetary data

Activities

- **University of Rochester:** Swim team, Rowing team
- **Rose-Hulman:** Swim team, Track and Field team, Symphony Orchestra

Hobbies: Swimming, Running, Clarinet, Guitar, Chess, Rubik's Cubes, Video Games, Entomology