Ryan Bowering

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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*
Post-Bac Researcher, Data Analysis
- Built AI models for shock waveform generation, exceeding state-of-the-art in realism and speed
- Leveraged LLMs for literature review, brainstorming, and code to accelerate research
- 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* *2025 - Present*
- *Rose-Hulman Swim Team* (Mental Attitude Award) *2021 - 2024*
- *Rose-Hulman Symphony Orchestra* *2022 - 2024*
- *Rose-Hulman Track and Field Team* *2024*

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