

# Dylan Bowman

[Website](#) ❖ Champaign, IL ❖ [dylanbowman314@gmail.com](mailto:dylanbowman314@gmail.com)

## EXPERIENCE

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### Assured Information Security

June 2023 – Present

*Research Scientist I*

*Rome, New York*

- Used large language models to power a search engine across files in a simulation scripting language.
- Contributed to implementation of the Onto2Vec and OPA2Vec (Smaili et al.) algorithms for combining encoder-only transformer models with traditional knowledge graphs.

### Dept. of Philosophy, University of Illinois

January 2023 – May 2023

*Research Assistant*

*Urbana, Illinois*

- Conducted research on AI safety and interpretability with Prof. Ben Levinstein.
- Analyzed the ability of GANs and GPT-2 to learn isolatable human-like abstractions.

### Illinois Risk Lab

August 2022 – December 2022

*Student Researcher*

*Urbana, Illinois*

- Worked with a University of Illinois professor and undergraduate group to analyze textual features of patents.
- Used BERT models to generate classifications for patents with an emphasis on interpretability.

### Amazon

May 2022 – August 2022

*Software Development Engineer Intern*

*Seattle, Washington*

- Created an internal read-only database migration tool serving over 300 datasets, potentially saving the team over \$100,000 per year in data hosting fees.
- Created an API to allow clients to make access calls to multiple database services.

## EDUCATION

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### University of Illinois at Urbana-Champaign

May 2023

*B.S. in Mathematics and Computer Science*

*Urbana, Illinois*

- Minor in Statistics, Certificate in Data Science
- Relevant Courses:
  - **Computer Science:** Machine Learning, Databases, Data Visualization, Algorithms
  - **Mathematics:** Applied Linear Algebra, Differential Equations, Real Analysis
  - **Statistics:** Fundamentals of Deep Learning, Basics of Statistical Learning, Statistical Modeling
- Languages: Python, R, Java, C++, Javascript
- Frameworks/Libraries: PyTorch, Pandas, Scikit-Learn, Flask, Node.js, AWS, Google Cloud