

# Sidharth Baskaran

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## EDUCATION

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### Georgia Institute of Technology

Aug. 2022 – Present (on-leave)

B.S. Computer Science, GPA: 4.0

*Atlanta, GA*

- **Coursework:** Data Structures & Algorithms, Linear Algebra, Multivariable Calculus, Honors Discrete Math
- **Awards:** President's Undergraduate Research Salary Award (Summer & Fall 2023), Faculty Honors

## EXPERIENCE

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### Founding Engineer & Researcher

June 2023 – Present

Automorphic (YC S23)

*San Francisco, CA*

- Topics: scalable domain knowledge infusion through context compression and efficient architectural modifications, sample-efficient preference optimization, multi-modal agents for the web
- Developed & maintaining various internal tooling and experimental infrastructure for data processing, training, and inference of language models

### Researcher

April 2024 – Present

Confirm Labs

*Remote*

- Exploring cross-layer superposition in sparse autoencoders for more interpretable language models
- Developed hypernetwork-based model editor architecture that intervenes on a target model's activations given natural language instructions

### Research Intern

June 2023 – July 2023

Oak Ridge National Laboratory

*Oak Ridge, TN (Remote)*

- Adapted the Relational Transformer and Tokenized Graph Transformer architectures to support property prediction tasks on crystal structures and explored heterogeneous GNN architectures

### Undergraduate Researcher

Sept. 2022 – July 2023

Fung Lab, Georgia Tech

*Atlanta, GA*

- Developed a novel model-agnostic method involving virtual nodes to improve performance of graph neural networks on metal organic framework regression tasks (PURA recipient)
- Maintained core research software, implemented distributed training, hyperparameter optimization, large-scale data preprocessing optimized for graphs

## RESEARCH

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Gupta, A., Baskaran, S., & Anumanchipalli, G. (2024). Rebuilding rome : Resolving model collapse during sequential model editing. ACL 2024 KnowledgeLM workshop. Retrieved from <https://arxiv.org/abs/2403.07175> (link, pdf, code)

## TECHNICAL SKILLS

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**Languages:** Python, Java, JavaScript, MATLAB/Octave, C++, HTML/CSS, L<sup>A</sup>T<sub>E</sub>X

**Skills:** PyTorch, Docker, Git, Ray, Slurm, GCP, Unix, CAD & prototyping