

VARUN IYER

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EDUCATION

Johns Hopkins University Master of Science in Engineering - Computer Science	Sep 2020 - Present GPA: 3.6/4.0
University of Massachusetts Amherst Bachelor of Science - Computer Science	Sep 2017 - May 2020 GPA: 3.7/4.0

EXPERIENCE

Amazon May 2021 - Present
Applied Scientist Intern

- ▷ Worked on **Alexa NLU** team supervised by **Professor Aram Galstyan** on data augmentation
- ▷ Designed and implemented structure-driven Transformer architecture for paraphrase generation

Johns Hopkins University Jun 2020 - Present
Research Assistant

- ▷ Working with **Professor Benjamin van Durme** on semantically grounded image classification
- ▷ Improving ResNet architecture for few-shot learning with geometric hierarchical embeddings

University of Massachusetts Amherst Sep 2018 - May 2020
Undergraduate Research Assistant

- ▷ Worked with **Professor Andrew McCallum** on fine-grained entity typing using PyTorch
- ▷ Developed a stacked BiLSTM with embedding-based loss functions and hierarchical type constraints

University of Southern California May 2019 - Aug 2019
Visiting Undergraduate Researcher

- ▷ Worked with **Professor Xiang Ren** to apply reinforcement learning to knowledge graph reasoning
- ▷ Trained a PCNN with attention to perform distantly supervised relation extraction on inference paths

Information Sciences Institute May 2018 - Aug 2018
Undergraduate Research Intern

- ▷ Worked with **Professor Craig Knoblock** to build and link entities in a KG of space-related objects
- ▷ Implemented level-based access control for data across multiple Elasticsearch indices

RELEVANT COURSES

Graduate Courses

Deep Learning
Human Language Technology
Parallel Programming
Semantics

Undergraduate Courses

Natural Language Processing
Machine Learning
Artificial Intelligence
Calculus & Linear Algebra

SKILLS

Programming Languages
Software & Tools

Python, Java, C++, C, JavaScript
PyTorch, NumPy, Sci-kit Learn, SciPy, L^AT_EX