Siddharth Vashishtha

ML Software Engineer

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Industry Experience

Nov 2023 – Present **Google DeepMind**, *New York City, NY, USA*
ML Software Engineer
○ Advancing LLM model capabilities for improved **tool use in the Gemini app**
○ Launched first market version of **Gemini Deep Research**, focusing on model quality

May – Aug 2022 **Google Assistant**, *Mountain View, CA, USA*
Research Intern, with Rahul Goel and Waleed Ammar
Collaborated with the **Semantic Parsing** NLU team, resulting in an EMNLP paper

Jun – Aug 2021 **Verneek AI**, *New York City, USA*
Research Intern, with Nasrin Mostafazadeh
Worked on improving **Natural Language Generation** in a closed-domain setting

May – Aug 2020 **Amazon Alexa AI**, *Remote, USA*
Applied Scientist Intern, with Sarah Campbell and Ran Xue
Worked with Alexa AI NLU team in Boston on **Cross Lingual Transfer Learning**

2014 – 2017 **EXL Services**, *Gurgaon, India*
Senior Consultant, Consultant-II, Consultant-I
Worked on multiple projects with various retail banking clients on: report automation with SAS and Excel VBA (front-end and back-end), engineering features and developing models on customer data for mitigating risk in credit card portfolios

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Education

2019 – 2024 **University of Rochester**, *New York, USA*
Ph.D., Computer Science
Thesis Title: Toward Comprehensive Broad-Coverage Cross-Document Event Extraction
Advisor: Aaron Steven White

2019 – 2021 **University of Rochester**, *New York, USA*
MS, Computer Science
GPA: 3.96/4

2017 – 2019 **University of Rochester**, *New York, USA*
MS, Computational Linguistics
GPA: 3.96/4

2009 – 2014 **Indian Institute of Technology**, *Kharagpur, India*
B.Tech (Hons.) in Agricultural and Food Engineering
M.Tech in Food Process Engineering

Technical Skills

Languages Python (Proficient), R, SAS, SQL, Excel VBA
Familiar Lisp, C++, Matlab, Javascript, HTML, CSS
Tools PyTorch, MTurk, Docker, AWS, Pandas, Numpy, Sklearn

Publications

NAACL 2024 (long) FAMuS: Frames Across Multiple Sources
Vashishtha, S, A. Martin, W. Gantt, B. Van Durme, A.S. White

EMNLP 2023 (long)	**PRESTO: A Multilingual Dataset for Parsing Realistic Task-Oriented Dialogs** Rahul Goel, Waleed Ammar, Aditya Gupta, **Siddharth Vashishtha**, Motoki Sano, Faiz Surani, Max Chang, HyunJeong Choe, David Greene, Kyle He, Rattima Nitisaroj, Anna Trukhina, Shachi Paul, Pararth Shah, Rushin Shah, Zhou Yu
Findings of EMNLP 2023 (short)	**On Event Individuation for Document-Level Information Extraction** W Gantt, R Kriz, Y Chen, **S Vashishtha**, AS White
EACL 2021	**LOME: Large Ontology Multilingual Extraction** Xia, P., G. Qin, **S. Vashishtha**, Y. Chen, T. Chen, C. May, C. Harman, K. Rawlins, A.S. White, and B. Van Durme.
Findings of EMNLP 2020 (short)	**Temporal Reasoning in Natural Language Inference** **Vashishtha, S**, A. Poliak, Y.K. Lal, B. Van Durme, A.S. White.
LREC 2020	**The Universal Decompositional Semantics Dataset and Decomp Toolkit.** White, A.S., E. Stengel-Eskin, **S. Vashishtha**, V. Govindarajan, D. Reisinger, T. Vieira, K. Sakaguchi, S. Zhang, F. Ferraro, R. Rudinger, K. Rawlins, B. Van Durme.
AAAI 2020	**Improving Semantic Parsing using Statistical WSD (Student Abstract)** Bose, R., **S. Vashishtha**, J. Allen.
ACL 2019 (long)	**Fine-Grained Temporal Relation Extraction.** **Vashishtha, S**, B. Van Durme, A.S. White.

ArxiV Preprints

ArxiV 2023	**Megawika: Millions of reports and their sources across 50 diverse languages** Samuel Barham, Orion Weller, Michelle Yuan, Kenton Murray, Mahsa Yarmohammadi, Zhengping Jiang, **Siddharth Vashishtha**, Alexander Martin, Anqi Liu, Aaron Steven White, Jordan Boyd-Graber, Benjamin Van Durme

Teaching Experience

Spring 2021	**Graduate Teaching Assistant**, *University of Rochester*, Rochester, NY, USA **CSC486: Computational Complexity** Instructor: Prof. Lane Hemaspaandra
Spring 2020	**Graduate Teaching Assistant**, *University of Rochester*, Rochester, NY, USA **CSC446: Machine Learning** Instructor: Prof. Daniel Gildea
Sept 2019	**Sole Instructor**, *University of Rochester*, Rochester, NY, USA **Python Introduction Tutorials** Conducted five 90-minute tutorials on Basic Text Processing in Python. (Github)
Fall 2018	**Graduate Teaching Assistant**, *University of Rochester*, Rochester, NY, USA **CSC444: K.R. and Reasoning in AI** Instructor: Prof. Lenhart Schubert

Professional Service

Primary Reviewer: ACL 2020/2021, EMNLP 2021/2023, ARR 2022/2023