

STEVEN SINHA

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Education

Stony Brook University

Bachelor of Science in Computer Science, GPA: 3.84
Stony Brook Honors College

Sept 2019 – May 2023

Stony Brook, NY

Experience

Research Assistant

Sept 2020 – Present

Language Understanding and Reasoning Lab, Stony Brook University

- Created a custom Question Answering dataset based off of HotpotQA and R4C datasets as part of an inquiry into the effectiveness of language models in question answering given minimal input.
- Finetuned RoBERTa language model for QA and utilized the model for evaluating an LM's performance on the aforementioned custom dataset.
- Developed criteria for human evaluation to determine the sufficiency of language model generated explanations to answer given questions.
- Participated in weekly research meetings to discuss results of past work and future direction of research.

Teaching Assistant

Sept 2020 – Dec 2020

CSE 150 - Honors Foundations of Computer Science, Stony Brook University

- Lead weekly recitations to teach a group of 15-20 students important computer science and discrete math concepts such as sets and cardinality, probability, counting, logic, and proofs.
- Cooperated with a professor to develop assignment and exam questions for students.
- Instructed students both individually and in groups to help them work through assignments and succeed in the course.

Publications

Summarize-then-Answer: Generating Concise Explanations for Multi-hop Reading Comprehension

Naoya Inoue, Harsh Trivedi, **Steven Sinha**, Niranjan Balasubramanian, Kentaro Inui

Conference on Empirical Methods in Natural Language Processing (EMNLP), 2021

Projects

T5L MERN Stack Website

- Developed a full-stack website with features including: account creation, creation of Top 5 Lists, ability to view Top 5 Lists made by other users, likes, dislikes, views and comments on Top 5 Lists, user authentication, and more.
- Utilized React.js, CSS, and Material UI, to create a visually appealing yet functional front end featuring page navigation, site-wide toolbar, and conditional component rendering. Front end REST requests were created using Axios.
- Utilized Express for the back-end server, with handler functions set up for requests to multiple routes. Implemented Mongoose schemas to facilitate easier retrieval of data from Mongodb.

Containerized Tic-Tac-Toe Web App

- Developed a RESTful tic-tac-toe website with AJAX creating client side REST requests, and Express running on Node as a back-end, connected to a Mongodb database.
- Wrote a custom Dockerfile to build an image of the Node back-end. The Dockerfile is portable and takes advantage of a remote git repository to build the image without relying on server code being present on the host machine.
- Composed a docker-compose.yml file that deploys the entirety of the application using docker. The compose file takes advantage of the custom Dockerfile to set up the web server, and sets up the Mongodb database in a separate container.

Skills

Programming Languages: JavaScript, Python, C, Java

Other Technical Skills: git, Docker, Bash, VS Code

Transferable Skills: Teamwork, Initiative, Self-Management

Accolades & Achievements

- Dean's List Fall 2019, Spring 2020, Fall 2020, Spring 2021, Fall 2021
- Outstanding Undergraduate Teaching Assistant Award Fall 2020 - Spring 2021
- National Merit Scholar Finalist 2018