John (Yogi) Sragow

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Education

Massachusetts Institute of Technology — Cambridge, MA

Candidate for Bachelor of Science in Mathematics and in Computer Science and Engineering, June 2023

Coursework includes: Interconnected Embedded Systems, Abstract Algebra, Real Analysis, Probability and Random Variables, Music and Technology, Machine Learning, Computational Structures, Cryptography, Topology, Advanced Algorithms, Theory of Computation

Leadership Experience

Intro to Machine Learning — September 2022 - Present

Lab Assistant

- Helped students learn about machine learning
- Gave checkoffs to ensure that they had finished labs
- Answered questions pertaining to homework or course material

Advanced Algorithms Research Paper — November 2022 - December 2022

Author

- Developed original polynomial-time algorithm for multiprocessor scheduling problem
- Collaborated with other authors to develop polynomial-time approximation algorithms

Interconnected Embedded Systems Group Project — April 2020 – May 2020

Head of back end code

- Collaborated with front end designers to develop a server for a multiplayer game played on microcontrollers.

Work Experience

Upduo (Skale Education Inc.) — Cambridge, MA

Software Engineer Intern — June 2022 – August 2022

- Owned, designed, and completed middleware for all backend transactions
- Located and removed deprecated endpoints
- Collaborated with a team using GitHub via Git Bash

MIT: Server GPS Mapping for Health Data — West Orange, NJ

Software Engineer Intern — June 2021 – June 2022

- Provide software support to project creating easy-to-use website for clinicians to track geographic patterns in diseases.
- Constructed a server using Django containing a page that geographically maps health data in order to track disease clusters.
- Maintained certificates to keep websites up and running

MIT: Remote Clinical Trial Emulation — West Orange, NJ

Analytics Engineering Intern — June 2020 – August 2020

- Designed and constructed code that would allow for specifications for a drug repurposing clinical trial to be transformed into SQL requests to a database of historical data, which would form a cohort.
- Used pandas and PostgreSQL to analyze patient information such as LOINCs, ICD9 and ICD10 diagnosis codes, drugs, procedure codes, and insurance information
- Expedited process of remote clinical trials by dynamically generating SQL for a given specification, instead of the SQL having to be manually written

Skills

Tools: Excel, LaTex, pandas, IBM Watson Studio, PyTorch, Django, Virtual Machines, Ubuntu, React, Git, GitHub, Unix command line, Docker, Git Bash

Programming Languages: Python, Javascript, Arduino, SQL, C++