Sohini Kar

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Education

Massachusetts Institute of Technology

Major: **Computer Science**, Minor: Brain and Cognitive Science   August 2018 - May 2022

Skills

Computer Languages: Python, Java, Matlab, Julia, LaTeX, Typescript, HTML, CSS, Javascript, C++
Technologies: Tensorflow, Numpy, PyTorch, Arduino, ReactJS, Vue.js, Flask, Firebase, Figma
Languages: English, Bengali, Spanish, Russian

Experience

Microsoft   Redmond, WA
Software Engineering Intern, Augmentation Loop   *June 2021 – August 2021*
- Developed web application for using Microsoft intelligence services, including text insights
- Built full stack application using Vue.js and Typescript, designed frontend using Figma

Confluent   Mountain View, CA
Backend Software Engineering Intern, Tools Team   *May 2020 – August 2020*
- Created web application to pull organization event data from GitHub to post to Kafka cluster
- Used GitHub Apps to post event data to REST API endpoint, authenticated and pushed payloads to appropriate Kafka topics using Python

MIT Desimone Lab   Cambridge, MA
Undergraduate Researcher   *January 2020 – August 2020*
- Created Matlab scripts to process area-MT neuron firing rate matrices and convert to AUROC graphs and metrics, gained familiarity with firing behavior, statistical analysis, and Matlab

Securiti.ai   San Jose, CA
Machine Learning Extern   *December 2019 – January 2020*
- Trained language models on a specified corpus of texts to generate own versions of the texts,
- examined effects of various parameters such as model size on quality of outputs ï Used Tensorflow, and gained experience with machine learning, NLP, and RNNs

NASA Jet Propulsion Laboratory   Los Angeles, CA
Software Engineering Intern, Search Team   *June 2019 – August 2019*
- Developed a tool to find similar images based on image features and page context using Python, OpenCV, and Tensorflow, used Scrapy to scrape and index images into Elasticsearch
- Created image search engine front-end using React.js to query for images from Elasticsearch cluster with 10,000+ images for use by 6,000+ people at JPL

Leadership and Awards

Campus Involvement: President of UI/UX @ MIT, Marketing Chair for AI @ MIT, Director of Technology for MIT Model UN, College of Computing Student Advisory Group

Awards and Membership: Rewriting the Code Fellow, Facebook Above and Beyond Computer Science, Figma Award at hACCESS 2020, Best Domain at Hack Girl Summer 2020, National Merit Scholarship Winner 2018, Regional Finalist for Siemens Competition 2017, President's Volunteer Service Award Gold 2017+2018