

SRITAN MOTATI

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EDUCATION

Thomas Jefferson High School for Science and Technology

September 2020 - Present

Sophomore

Past & Present Coursework: AP Biology, Artificial Intelligence, Data Structures, Research Statistics 1

Activities/Societies: Biology Olympiad Club (Webmaster), Bioinformatics Society (Webmaster), Machine Learning Club, Congressional Debate, Latin Honor Society, TJ Peer Tutoring (Biology & CS Tutor)

Overall GPA: 4.0/4.0

EXPERIENCE

DeepCerebri

September 2021 - Present

Machine Learning Architect

I am currently a machine learning architect at DeepCerebri (deepcerebri.ai), a startup focused on building software and hardware solutions to problems in neuroscience using machine learning. Currently working on classifying concussions using electroencephalograms.

International Biology Bowl

April 2021 - Present

Director of Technology

I created the website for the International Biology Bowl using React.js, Gatsby, and Tailwind CSS (biologybowl.org). I also wrote biology questions in topics ranging from plant biology to biochemistry for our competitions, which attracted over 150 teams from around the world. I am currently working on building a testing platform that allows real-time collaboration between teams.

Potentia Robotics

October 2021 - Present

Computer Vision Team Member and Webmaster

Potentia Robotics aims to be the first team of high school students to create a 6 foot humanoid robot that can walk and avoid obstacles. I work on the computer vision team, where I program how the robot analyzes what it sees (LiDAR and cameras), avoids obstacles, and moves toward a target. I also lead development of the website.

Hear Our Voices

June 2021 - November 2021

Web Developer

I created the website for Hear Our Voices, a DC-area based nonprofit dedicated to sharing the stories of teens impacted by mental health. I used React.js and created a functional website with a blog page and contact page. (View the site at hear-our-voices.vercel.app)

TechTalkers

April 2020 - Present

Founder and Chief Editor

I co-founded TechTalkers, a Medium blog that writes about interesting news in the realm of science and technology. I have edited every one of our 100+ articles posted, which garner over 10,000 views monthly. TechTalkers currently has over 250 followers, and the blog can be viewed at medium.com/techtalkers.

TECHNICAL STRENGTHS

Languages	Python, Java, JavaScript, HTML, CSS, C++, SQL
Web Development	React.js, Gatsby, Tailwind CSS, Firebase, MongoDB, Node.js
Machine Learning	NumPy, Pandas, Matplotlib, Scikit-learn, TensorFlow, Keras, PyTorch
OS and CI/CD	Windows, Bash, Git, GitHub, Netlify, Vercel

RESEARCH/PROJECTS

CRGAN (in progress) September 2021-Present

I am currently developing CRGAN, a novel method to increase the accuracy of gland segmentation and tumor classification in slide images from colorectal cancer patients. This model will use generative adversarial networks to augment segmentation data, which will be fed into a U-Net model that will increase segmentation accuracy with more data samples.

NeurEye (in progress) August 2021-Present

Working with a research partner to create NeurEye, a mobile application that will use eye gaze inference algorithms and state-of-the-art deep learning models to diagnose neurodegenerative diseases using videos of saccades.

MediCord April 2021

Honorable Mention - Hack-2-Connect 3.0

Worked with two teammates to develop MediCord, a web application that allows users to upload audio recordings of doctor visits and automatically transcribes and summarizes the recording using machine learning. Built with Firebase, React.js, React Bootstrap, Node.js. Won honorable mention at Hack-2-Connect 3.0 hackathon.

AWARDS AND RECOGNITIONS

Hack-2-Connect 3.0 (2021)	Honorable Mention
USA Biology Olympiad	Top 250 Score in Semifinalist Exam (2021)
AP Computer Science A Exam	Perfect Scorer (top 0.48% in the world)