Satvik Reddy

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Full stack web developer and High schooler from the Bay Area

Education

Aragon High school

2020 – current

Skills

Programming Languages

Go, Python, Typescript, JavaScript, HTML, CSS, Java, C++, C, SQL, Bash, PowerShell

Technologies

AWS EC2, S3, Elastic Beanstalk, RDS, Firebase, Docker, docker-compose, PostgreSQL, SQLite, MongoDB, Nginx, Windows, Linux, Unix, Visual Studio Code, Vim

Experience/Events

FRC Robotics Team | Programmer

August 2020 – Current

- Worked as a programmer for the Aragon High School FRC Robotics Team
- Used **Java** and the **WPILib** library to program the robot.
- Worked in a team of six programmers.
- Collaborated closely with a team of mechanical engineers.

HackDefy Hackathon | Participant

August 2020 | Online

- Built a Spelling Tutor to help students with low educational resources.
- Used the **Flask** framework to build a website, as well as **JavaScript** and **CSS** to add extra functionality and styling.
- Built and trained a **machine learning** model with **TensorFlow.**

DVHacks ||| | Participant

March 2021 | Online

- Built an automatic music transcriber to help beginner music students learn music.

- Uses a website delivered via a **Flask** webserver.
- Music uploaded by the user is converted to MIDI with a **Pytorch** machine learning model.
- The MIDI is then converted to sheet music and uploaded to **AWS S3**.

Projects

Homework Help

Node.js, Next.js, React, Typescript, MongoDB, AWS S3

This project is a platform made for students to get help on homework and assignments. Students can share questions, answer questions, and give feedback. The backend is a REST API built with Node.js, Express.js, and Typescript. I used MongoDB to store data, and Redis to store JWT tokens. The frontend was built with React, and Next.js. The server and the database were hosted on an AWS EC2 instance, the Next.js website was hosted on Vercel, and user uploaded images were stored on AWS S3. GitHub Link: https://github.com/SatvikR/homework-help

Cyan DB

Go

Cyan DB is a persistent key-value database inspired by Redis, written in Go. The database uses algorithms I wrote to serialize, deserialize, query, and insert data. The server receives database commands in the form of JSON objects sent over WebSockets. I also wrote an interactive shell that serves as a client for the database. GitHub Link: https://github.com/SatvikR/cyandb

Lisolver

Flask, Python, Next.js, React, Typescript, Sympy

Lisolver is an open-source equation solver and simplifier. The backend is a REST API written in Python using the Flask framework. The equations are evaluated using the Sympy library. The frontend is a Next.js application written in Typescript. GitHub Link: https://github.com/SatvikR/lisolver

More projects available on my GitHub

Personal Achievements

- Showcased my projects to a group of executives, including the CTO, at Macy's Tech.
- Auditioned for and joined the Jazz Ensemble at my high school.
- Obtained a 1300 rating in Chess.
- Obtained a 1200 USATT (USA Table Tennis) rating.

Other Fun Activities/Interests

Music, Video Gaming, Chess, Table Tennis, and Technology in general.