Satvik Reddy

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I am a full stack web developer and high schooler from the San Francisco Bay Area. Currently, I am 14 years old, and I have been programming for 6 years.

Education

Aragon High School   2020 – present
San Mateo, CA
GPA: 4.0 (UW)

Skills

Programming Languages

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

Technologies

AWS EC2, S3, Elastic Beanstalk, RDS, Firebase, Git, Docker, docker-compose, PostgreSQL, SQLite, MongoDB, Nginx, Windows, Linux, Unix, Raspberry Pi, IDEs/Debuggers, Visual Studio Code, Vim

Experience

FRC Robotics Team, *Programmer*   Aragon High School
                                                                                            Aug 2020 - Present
- Collaborate with six programmers using Java and WPILib library to program robot
- Coordinate closely with team of electrical engineers

HackDefy Hackathon, *Participant*   Online
                                                                                            August 2020
- Created website served via a Flask webserver to help students with limited educational resources with spelling and handwriting
- Collaborated with team members to built and train a machine learning model to convert students' writing to text with TensorFlow
- Worked with JavaScript and CSS

DVHacks III, *Participant*   Online
                                                                                            March 2021
- Collaborated with team members to build an automatic music transcriber to help beginner music students learn music; website served via a Flask webserver
- Machine learning model build with Pytorch converts user uploaded mp3 formatted music to MIDI file format
- MIDI file saved as PDF and uploaded to an AWS S3 bucket before being sent to user

Projects

Homework Help
[GitHub Project Link](#)

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

- Assist student users on homework and school assignments by allowing them to share and answer questions and give feedback
- Backend is a REST API build with Node.js, Express.js, and Typescript
- Worked with MongoDB to store data and Redis to store JWT tokens
- Frontend was built with React and Next.js
- Server and database hosted on an AWS EC2 instance, Next.js website hosted on Vercel, and user uploaded images stored on AWS S3

Cyan DB
[GitHub Project Link](#)

Go

- Designed algorithms to serialize, deserialize, query, and insert data to be used by database
- Server receives database commands in the form of JSON objects sent over WebSockets
- Wrote an interactive shell that serves as a client for the database
- Project is a persistent key-value database inspired by Redis, written in Go

Lisolver
[GitHub Project Link](#)

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

- Open-source equation solver and simplifier, built to help students with their math homework
- Equations are evaluated using the Sympy library
- Backend is a REST API written in Python using the Flask framework
- Frontend is a Next.js application written in Typescript

Achievements

- Showcased my projects to a group of executives, including the CTO, at Macy's Tech
- Placed first in TheCoderGames, a nation wide computer science competition hosted by theCoderSchool
- Auditioned for and selected to play for Aragon High School Jazz Ensemble
- Obtained a 1300 rating in Chess
- Obtained a 1200 USATT (USA Table Tennis) rating
- Solved a Rubik's cube in under 15 seconds in an official competition ([My WCA Profile](#))

Interests and Hobbies

Jazz Music, Video Gaming, Chess, Table Tennis.