Mahesh Natamai [Email](.) | [GitHub](.) | [LinkedIn](.) | [Portfolio](.)

High school senior self-learning **software engineering (fullstack)**, **machine learning**, and **data science**, with an affinity for **finance** and **investing**.

EDUCATION

School Of Science And Engineering, Dallas, TX — *Expected June 2022*

2018 - 2022: Weighted GPA: **4.6** • Cumulative GPA: **96.38** • Class Rank: **12**

EXPERIENCE/ORGANIZATIONS

Brains 4 Drones — *Jun 2020 - Present*: Intern

Working with keypoint descriptor algorithms and other computer vision techniques for **SLAM** on **autonomous drones** for aerial infrastructure inspection.

Fiverr — *Nov 2020 - Mar 2021*: Discord Bot Developer

Level one seller on fiverr with **over 18K impressions** and **a 5.0 star rating** for discord bot development using **Node.JS**. Worked with integrating **3rd party APIs**, using **MongoDB** and **MySQL** databases, and fulfilling **custom requirements** on every order.

Iron Reign Robotics — *Dec 2019 - Present*: Lead Programmer (Java)

Lead programmer / java developer for the FTC Robotics Team Iron Reign based in Dallas, TX that has attended the FTC World Championship in Houston, TX three years in a row. Developed **autonomous programs** and **OpenCV pipelines** using **Java**.

The Dogs Of Dalal Street — *Podcast / Blog:* [Linktree](.)

Hosted by Myself, Rutvij Thakkar, Harish Jai Ganesh, and Raghav Gangatirkar, where we **discuss/write about finance related topics**.

Oasis Investment Club — *May 2019 - Present*: Cofounder, Software Developer

Co-founded the oasis investment club to **educate members about finance**, employing a variety of strategies to ensure maximum growth including **portfolio optimization software** and **LSTM based stock prediction**.

National Honor Society (NHS) — *Nov 2019 - Present*: Member

Boy Scouts Of America (BSA) — *Jun 2016 - Present*: Scribe,Historian

PROJECTS *(Other projects listed on Github and Portfolio)*

Signify - *Web App*: [Demo/Submission Video](.) | [Website](.) | [GitHub](.)

Submitted to the **congressional app challenge** and **won first place**. Designed to enable members of the deaf and hard of hearing communities to communicate with those who do not understand ASL using machine learning. Built using **React**, **Next.js**, **Python**, **Tensorflow**, and **Keras**.

Menter — *Web App / Platform*: [Website](.) | [Devpost](.)

Submitted to the Jumpstart Edtech startup competition/hackathon, **won first place in the tech category**; a platform allowing students to learn if they have something to teach, built using the **MERN stack**.

Quick Maths — *Web App*: [Website](.) | [GitHub](.)

Developed as an **education tool** built with **Angular** frontend and **Firebase** backend, allowing UIL Number Sense teams to **practice tests online** and monitor progress through a **leaderboard**, reducing paper waste from printing tests.

LyricNet — *Machine Learning Web App*: [Website](.) | [GitHub](.) | [Devpost](.)

Architected as a web app to generate song lyrics, song lyric autocompletion, and question answering (using BERT) for the **def hacks 2020 hackathon**, built using a **Flask** backend, **Tensorflow** for machine learning, and a **React** frontend

COURSEWORK/CERTIFICATES

Machine Learning, Stanford University — *Coursera:* [Credential](.)

SKILLS

PROGRAMMING LANGUAGES:
Java • Python • JavaScript • Node.JS • TypeScript • Octave • HTML • CSS

FRAMEWORKS/LIBRARIES:
React • Redux • Angular • Flask • Bootstrap • Express.JS • Firebase • OpenCV • Selenium

DATA SCIENCE
Pandas • Numpy • Tensorflow (Keras) • Matplotlib

DATABASES
MongoDB • Mongoose • MySQL • Sequelize

MISCELLANEOUS
Git • Github • Heroku • SSH • Unix

EDITING TOOLS
Davinci Resolve 16 • Audacity

AWARDS

Qualified For **World Championship FTC Robotics Tournament** (Through Inspire And Connect Awards)

Won **first place** in the tech category, most voted, and received **$400 cash prize** for my team's submission to the **Jumpstart Edtech startup competition/hackathon**: Menter

Won **first place** for Signify, an app submitted to the **congressional app challenge**

AP Scholar With Distinction 2020: Achieved an average score of at least 3.5 on all ap exams taken, and scores of three or higher on five or more exams.

Reached **Silver Division** in **USA Computing Olympiad**

Second Place at UTD Fall **High School Programming Contest**

Second Place at **Codemmunity's October 2020 Capture The Flag (CTF) event** over General Web/API Knowledge, Programming Challenges, and Linux/Bash Command Line, **receiving a $20 prize.**