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

High school junior 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

2018 - 2022: Weighted GPA: **4.56**, Unweighted GPA: **3.85**, Cumulative GPA: **96.13**, AP Classes: **9**

## ORGANIZATIONS

**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, developing autonomous programs and OpenCV pipelines using Java.

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

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

**Oasis Investment Club** — *May 2019 - Present*: Cofounder, Machine Learning / 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.

**The Dogs Of Dalal Street** — *Podcast:* [Spotify](#) | [Youtube](#) | [Anchor.fm](#)| [Instagram](#) | [Facebook](#)

- A podcast hosted by Myself, Rutvij Thakkar, Harish Jai Ganesh, and Raghav Gangatirkar, where we discuss finance related topics.

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

**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.

**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

**Triple Spades** — *Web App* [GitHub](#)

- Developed as an online card game web app built with Angular frontend, Flask backend, MongoDB database, and SocketIO for real-time gameplay. Authentication done using JWT through a REST API.

**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

**Recipe Book** - *Web App*: [Website](#) | [GitHub](#)

- Architected to keep track of user submitted recipes, including recipe titles, images, descriptions, and ingredients, as well as submit them to a shopping list using Firebase backend and Angular frontend.

**Game Bot** - *Discord Bot*: [Invite Link](#) | [GitHub](#)

- Developed using NodeJS with the Discord.JS library to play various games including card games, tic-tac-toe, poker, and others.

## SKILLS

### PROGRAMMING LANGUAGES
Java
Python
JavaScript/TypeScript
HTML/CSS

### FRAMEWORKS/ LIBRARIES
React/Redux
Angular
Flask
MongoDB/Mongoose
NodeJS/Express.JS
Firebase
Bootstrap
OpenCV

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

### EDITING TOOLS
Davinci Resolve 16
Audacity

### AWARDS

Won first place in the tech category, most voted, and received $350 cash prize for my team's submission to the Jumpstart Edtech startup competition/hackathon: Menter

Second Place at UTD Fall High School Programming Contest

AP Scholar With Distinction 2020

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

Silver Rank in USA Computing Olympiad