

# MAHESH NATAMAI

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## EDUCATION

**Georgia Institute Of Technology**  
BS Computer Science *GPA: 3.9*

Expected Graduation: Dec 2024  
*Atlanta, GA*

**Relevant Coursework:** CS 1332 - Data Structures And Algorithms

## WORK EXPERIENCE

**Brains 4 Drones**

Jun 2021 - Sep 2021

*Computer Vision Intern*

*Plano, TX*

- Led project systematically testing novel keypoint detection/description algorithms for simultaneous localization and mapping (SLAM) on autonomous drones.
- **Increased accuracy of keypoint matching algorithm by 15%** by varying standard algorithm.
- Developed custom algorithm to efficiently select photos for drone camera calibration from 5-dimensional point cloud, **reducing calibration times by ~ 10-20 seconds**.
- Simulated drone hardware pipeline for keypoint descriptor experiments using python and jupyter notebooks. Vectorized implementations using numpy for a **>10x speedup**. Utilized Robot Operating System (ROS) to interface with collected bag data.

**Fiverr**

Nov 2020 - Jun 2021

*Discord Bot Developer*

*Plano, TX*

- Seller with over **18k impressions**, **30+ clients**, and a **5.0 star rating** for Node.js discord bot development.
- Integrated 3rd party APIs (twitch, hosting services, custom servers, etc.), using MongoDB and MySQL.

## PROJECTS

**Signify** *Next.js, Python, Flask, Tensorflow*

<https://github.com/MaheshNat/Signify>

- Designed to enable members of the deaf and hard of hearing communities to communicate with those who do not understand ASL (American Sign Language) using machine learning.
- Leverages custom-trained convolutional neural network (CNN) built using Tensorflow to translate ASL.

**Menter** *MongoDB, Express.js, React.js, Node.js*

<https://github.com/MaheshNat/Menter>

- Architected during a hackathon as an education tool for skill bartering, i.e. allowing students to learn skills if they have something to teach in return.

**Quick Maths** *Angular, Firebase*

<https://github.com/MaheshNat/Quick-Maths>

- An education tool allowing our UIL Number Sense team to take practice tests online and monitor their progress through a leaderboard
- Reduced paper waste from printing out tests and made training easier for Number Sense team members. Utilized by 75% of the Number Sense team.

## VOLUNTEERING/CLUBS

**Bits Of Good**

Aug 2022 - Present

*Fullstack Engineer*

*Atlanta, GA*

- Developing platform for nonprofit "Motherhood Beyond Bars" enabling incarcerated women to communicate with their children and receive necessary products. Using Next.js and Firebase.

## SKILLS

Programming Languages:	Python Java JavaScript TypeScript Node.js
Web Frameworks/Libraries:	React/Redux Next.js Angular Flask Express.js Firebase
Data Science:	Numpy Pandas Tensorflow Matplotlib OpenCV
Misc:	MongoDB MySQL PostgreSQL Agile Git Linux

## AWARDS

**First place in the tech category, most voted**

Jumpstart Edtech Hackathon

Won first place in the tech category and most voted out of 200 participants for my team's submission to the Jumpstart Edtech startup competition/hackathon: Menter

**First place**

Congressional App Challenge

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