

Nitya Kannan Tarakad

US Citizen

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Education

Georgia Institute of Technology

Graduating December 2021

- Candidate for Masters in Computer Science with specialization in Machine Learning through BSMS Program

Georgia Institute of Technology (GPA: 3.89 | Highest Honors, Faculty Honors, Dean's List)

[Aug 2017-Dec 2020]

- Bachelor of Science in Computer Science with threads in Intelligence and Devices

Experience

Georgia Tech - Entertainment Intelligence Lab | Graduate Student Researcher

[Dec 2020-Present]

- Currently researching language model techniques for story generation under Dr. Mark Riedl
- Finetuned automatic story generation models using HuggingFace and Pytorch

Facebook - Stories Creation Core | Software Engineer Intern

[May 2020-Aug 2020]

- Developed core features on Facebook's Stories Composer in Objective C
- Performed public testing on core features to gain user feedback and promote user experience

Georgia Tech - College of Computing | Teaching Assistant

[Aug 2019-Present]

- Currently a Graduate Teaching Assistant for CS 3600, Georgia Tech's Artificial Intelligence course
- Hold office hours weekly while organizing and conducting review sessions on the course content
- Held work hours as an Undergraduate Teaching Assistant for CS 3600 during undergraduate period at Georgia Techs

Facebook - WhatsApp iOS Core Messaging | Software Engineer Intern

[May 2019-Aug 2019]

- Programmed field status for testing infra improvements in production
- Implemented media infra performance algorithms to improve user experience on WhatsApp Statuses in Swift and Obj-C
- Developed core features on WhatsApp during Facebook's Intern Hackathon that were approved by WhatsApp engineers

SpectroSam | Co-Founder, Software Engineer Lead

[Aug 2017-Present]

- Implementing core features of mobile application utilizing Unity and C#
- Developed scripts to convert, parse, and analyze audio files to text in Python

Georgia Tech - School of Interactive Computing | Undergraduate Student Researcher

[Aug 2018-Dec 2018]

- Researched methods to benefit asthma patients through mobile applications

Pacific Gas and Electric Company (PG&E) | Software Engineer Intern

[May 2019-Aug 2018]

- Developed a chat bot using IBM Watson to allow field workers to look up complex information more efficiently
- Utilized DarkNet and YOLO to detect PG&E appliances, optimizing the company's inspection process

Projects

Human Pose Estimation Extension

[Sept 2020-Dec 2020]

- Expanded on multitask learning research on assessing quality of actions through human pose estimation
- Experimented with modified feature extraction/encoding and caption generation models based on researched MTL model

WhereTo

[May 2020-Sept 2020]

- A recommendation engine to predict where a user wants to visit
- Converts reviews into word vectors and filters utilizing negative sampling to output related items based on user input

WhatWhenWear

[Dec 2019-Present]

- An application that recommends what to wear based on the weather and what clothing the user owns
- Implemented image classification models to predict what a user is wearing

Kannada Translator

[March 2020-April 2020]

- A translation framework utilizing PyTorch and Tensorflow that converts to and from Kannada and Arabic numerals

Leadership

Student Scholar | Grace Hopper

[2018]

- Selected to attend the annual Grace Hopper Conference

Grand Challenges Scholar | Georgia Tech

[Aug 2017-Present]

- Created entrepreneurial products to help solve current global issues

Head Captain | ATL Tanishq

[Aug 2018-May 2020]

- Led an all-girls, nationally competitive Bollywood Fusion dance team

Skills

Software/Programming: Python, Java, Swift, Pytorch, HuggingFace, Objective-C, C, C#, JavaScript, React, HTML, CSS, Amazon AWS S3, Unity

Concepts: Supervised and Unsupervised Machine Learning, Artificial Intelligence, Deep Learning, Data Structures and Algorithms, Mobile iOS Development, Web Development, Object Oriented Programming

Languages: English, French, Hindi