# Pratyusha Karnati

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## EDUCATION

**Georgia Institute of Technology**                                                                            Atlanta, GA
*Candidate for Bachelor of Science in Computer Science and Engineering* **| GPA:** 3.64/4.0                    Aug 2017 – May 2021

**Relevant Coursework:** Perception and Robotics; Prototyping Intelligent Appliances; Computer Systems and Architecture; Intro to Artificial Intelligence; Idea to Prototype; Objects and Design; Data Structures and Algorithms; Applied Combinatorics; Discrete Mathematics; Introduction to Object-Oriented Programming; Programming in Java

**Gainesville High School**                                                                                    Gainesville, GA
**GPA:** 4.26/4.0 **| Rank:** 1 out of 388                                                                     Aug 2013 – May 2017

## SKILLS/ACTIVITES

**Skills:** Java, HTML, CSS, TypeScript, Ember, Swift, JavaScript, C#, C, Microsoft Office, Adobe Photoshop, Adobe Flash Professional, Mobile App Development (Android), C++, Arduino C, Python, Git, Unity

**Activities:** HackGT Board, Society of Women Engineers, Georgia Tech Bhangra, India Club, Student Alumni Association

## EXPERIENCE

**Explore (SWE & PM) Intern on Windows NeXT**                                                                  Seattle, WA
*Microsoft*                                                                                                    May 2018– Aug 2018
- Created a feature that allows users to mix and match 3D models from Remix3D by giving them the ability to extract textures from preselected textures, their own style images, or even from other models and then applying it to a 3D model of their choice

**Kinesse**                                                                                                    Atlanta, GA
*Co-Founder*                                                                                                   Aug 2017– Present
- Developing a smart device for clothing that allows for more natural exercising among casual athletes, funded through the Create-X program

**Undergraduate Student Researcher**                                                                           Atlanta, GA
*Contextual Computing Group/UbiComp Lab, School of Interactive Computing*                                      Jan 2018 – Present
- Updated Thad Starner's Head Worn Displays exhibit through the study of virtual reality properties such as field of view, line of sight, comfort of off-center HWD; social use of HWD such as teleprompter eyes, presence of camera, etc.

**Georgia Tech College of Computing**                                                                          Atlanta, GA
*Technology Services Organization -- Student Assistant*                                                        Aug 2017– May 2018
- Assist students and faculty members with instant hardware and software support in a help desk type environment

**Grand Challenges Program**                                                                                   Atlanta, GA
*SpectroSam, Co-Founder*                                                                                       Aug 2017 – Present
- We are currently developing a mobile application to help with the speech and language education of children with hard of hearing disabilities. We hope to provide an engaging and immediate feedback source to supplement traditional speech pathology through a mobile application.

**Spiralyze**                                                                                                  Atlanta, GA
*Summer Software Development Intern*                                                                           Jun 2017 - Aug 2017
- Used A/B testing to optimize company's website to help generate more traffic and revenue by updating company websites and by designing new templates for the webpages

**Tutoring Business** (*Math Tutor, May 2015 – August 2017*)                                                   Suwanee, GA
- Created a math tutoring business for elementary and middle school children to help either eliminate summer learning loss, help them in current coursework, and/or help them get ahead of their current curriculum

**Robotics**                                                                                                   Gainesville/Atlanta, GA
*RoboJackets RoboCup, VEX Robotics*                                                                            Aug 2011 – Jan 2018
- RoboCup: Implement new plays and tactics for existing software to maximize playing potential for robots on the field
- VEX: Main programmer and designer, managed the lab notebook in which the programs, progress, and designs were recorded

## PROJECTS

**OvenBot** (*PerkinsHacks 2018 Hackathon: Challenge Award Winner*)                                            Atlanta, GA
- Application that allows the visually impaired to interact more efficiently with modern home appliances          March 2018

**Synesthesia** (*HackGT 2017 Hackathon, https://devpost.com/g_karnati2004*)                                   Atlanta, GA
- Unity application that uses Myo armbands to synthesize/DJ songs and paint your movements                         October 2017

**Tesla Coil** (*Georgia Governor's Honors Program, Physics Major/Technology Minor*)                           Atlanta, GA
- Designed and built a Tesla Coil from scratch during an intensive 4-week summer program                           Summer 2015

## LEADERSHIP/CLUBS

**Georgia Tech Bhangra** (*Student Government Association Representative*)                                      Atlanta, GA
- Manage student government relations for my Bhangra team, discuss financial and travel information                Present

**HackGT** (*Operations Team*)                                                                                 Atlanta, GA
- Oversees the other divisions within HackGT and organizes the overall events in general to ensure they run smoothly  Present

**Gainesville High School Leadership**                                                                         Gainesville, GA
- Environmental Awareness, Beta, Math Club (President), Student Council (Secretary), 21st Century Leaders (Youth Ambassador)

**AWARDS:** Principal's Award; Wellesley College Book Award; Semi-Finalist of Moody's Mega Math Challenge; PerkinsHacks Challenge Winner