

Varun Vudathu

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Address: 425 Edgehill PL, Johns Creek, GA 30022

EDUCATION

Georgia Institute of Technology

Atlanta, GA

- *College of Computing*: BS in Computer Science
- *Relevant Coursework*: Linear Algebra, Multivariable Calculus, Intro to OOP, Computer Networking, Data Structures and Algorithms, Computer Organization and Programming
- *Cumulative GPA*: 3.93/4.00 | *Expected Graduation*: May 2025

Georgia Tech – Barcelona Computer Science Summer Program

Barcelona, Spain

- May 2023 – August 2023

Johns Creek High School

Johns Creek, GA

- Graduated May 2022

PROFESSIONAL EXPERIENCE

Georgia Tech Research Institute, *Software Intern in ATAS Lab*, Atlanta, GA

June 2021 – July 2021

- Led a team of three researchers in advancing camera visioning functionalities for an industrial Braccio Robotic Arm
- Facilitated successful integration of cutting-edge Python frameworks and libraries like Flask, OpenCV, AprilTags, etc. into a Raspberry Pi environment
- Pioneered the application of kinematic algorithms to optimize arm movement and enable precise workplace AprilTags detection

Georgia Tech Research Institute, *Engineering Intern in SEAL Lab*, Atlanta, GA

June 2020 – July 2020

- Conducted thorough research in advanced circuitry to conceptualize a COVID-19 Wearable Detection Device, valuable in identifying anomalies in temperature and blood pressure readings
- Orchestrated the creation of the Signal Processing Circuit Card, employing PCB design tools and comprehensive component documentation. Devised algorithms to ensure precise signal transmission within the device
- Leveraged Microsoft Office expertise to refine a business pitch for a tangible real-world product, showcasing adeptness in professional communication and presentation

EXTRACURRICULARS

GT WebDev, *Member – Project Manager*, Atlanta, GA

August 2022 – Present

- Successfully led and guided a team of five students in the collaborative creation of a dynamic full-stack web application, leveraging the power of the MERN stack and integrating public APIs for enhanced functionality
- Provided effective mentorship throughout the project's lifecycle, empowering the team to navigate the development process
- Actively contributed to group efforts in developing innovative web applications, utilizing distinct web frameworks and APIs

TiE Young Entrepreneurs, *COO of Boxed Water Initiative*, Atlanta, GA

September 2020 - June 2021

- Assumed the role of Chief Operating Officer of Boxed Water Initiative, a promotional product company dedicated to eliminating global plastic pollution through a reduction in plastic bottle consumption
- Collaborated with industry giants, such as Georgia Power and Wilheit Packaging, orchestrating impactful mentorship and securing crucial partnerships to drive our business objectives
- Showcased exceptional communication and leadership skills by presenting a compelling business pitch to judges in a competitive arena similar to the Shark Tank format

Vibha, *Lead Volunteer*, Atlanta, GA

February 2018 – Present

- Contributed actively as a volunteer, lending support in the coordination of major events like Vibha DreamMile and Vibha Cricket
- Crafted a mobile app using React Native and Android Studio, empowering students to schedule tutoring sessions with dedicated volunteers

GT Club Baseball, Atlanta, GA

August 2022 – Present

- 14-year competitive baseball background prior, clinching MVP (9th) and Cy Young (12th) awards during high school
- Devoted team member, engaging in four-times-weekly practices while serving as team statistician through GameChanger app

PROJECTS

Shareplay, *GT WebDev*, Atlanta, GA

Fall 2022

- Developed the front-end and back-end of a Chrome extension that allows to host a watch party and watch videos in sync
- Employed advanced JavaScript, Rest APIs, Firebase Auth and Firestore, and WebSockets

Web Arcade, *GT WebDev*, Atlanta, GA

Spring 2023

- Conducted end-to-end development of a website that hosts online games designed from platforms like Unity, Unreal Engine, etc.
- Utilized the MERN stack (MongoDB, Express, React, NodeJS), AWS S3 storage bucket, and Heroku to host the application

SKILLS AND INTERESTS

Computer Skills: Python, Java, JavaScript, HTML5, CSS3, ReactJS, React Native, Android/iOS, NodeJS, SQL, Windows, Linux, Firebase

Other Skills: Time Management, Teamwork, Adaptability, Microsoft Office || **Language:** Conversational Spanish and Telugu