

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, Objects and Design
- *Cumulative GPA*: 3.95/4.00 | *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 College of Computing, TSO Student Assistant – Cybersecurity, Atlanta, GA

August 2023 – Present

- Conducting Linux operations to proactively identify security vulnerabilities across campus-wide firewall and network, collaborating with professors to promptly mitigate these vulnerabilities
- Aiding in the development of Python algorithms responsible for data restructuring and report integration for data in SnipeIT database
- Developing a Python module for executing Linux commands on remote servers, enabling efficient retrieval and aggregation of asset data reports, utilizing data serialization techniques and advanced network communication protocols

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 OpenCV, AprilTags, etc. into a Raspberry Pi environment to perform camera visioning techniques
- 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

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

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 and learn business processes

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

Music Mood Analyzer, Project, Atlanta, GA

Fall 2023

- Developed an application that utilizes NLP techniques to perform sentiment analysis on user's songs and gives song recs
- Implemented with Python Flask, HTML, CSS, JavaScript, Scikit-learn, Keras, TensorFlow, and Spotify API

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 ReactJS, 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

Coding Skills: Python, Java, C Programming, JavaScript, HTML5, CSS3, ReactJS, Android/iOS, NodeJS, MySQL, Windows, Linux, Firebase

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