

AKASH VEERAPPAN

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🎓 Education

- Georgia Institute of Technology | Atlanta GA August 2020 - May 2024
Bachelors in Computer Science | Minor in Psychology and Business | 3.46 GPA
Courses - Linear Algebra, Multivariable Calculus, Intro to Object Oriented Programming, Discrete Math for CS
Skills - Java, Android App Development, User-Interface design, JavaScript, NodeJS, Swift, iOS App Development, Git, HTML/CSS, Python, SQL, PHP, C++, IoT
Organizations - Officer at GITMAD (GT Mastering Android Development) | Mentor at HackGT, HackDuke, NW Hacks

📁 Work Experience

- STREMHQ | Alpharetta GA Jan 2020 - Present
Programming Instructor
Teach programming concepts, such as **OOP** and programming languages, such as **Python** and **Java** to over 20 K12 students, by providing accessible hands-on robotics demos and interactive coding exercises
Lead and develop online course learning system by producing **10+** hours of lecture-style **Android App Development** video content and self-written quizzes to help students learn the material at their own pace

🔗 Projects

- Shushhh • Android Application Summer 2020
Co-founded an Android app that toggles ringer mode on or off based on location and/or time to boost productivity of over millions of students and businesspeople by over **23%** according to established research
Wrote **8000+** lines of code to develop custom **SQL** backend to store user schedule preferences and developed the **asynchronous** time and location scheduling logic using **Java** and **Android Jetpack APIs**
Published application on the **Google PlayStore** with customers from as far as Indonesia and Spain
- studygenerator.com • Web Application Winter 2020
Co-founded a web application that helps students study by generating questions and flashcards from the text pasted in to efficiently empower students to retain information compared to study tools where students make the flashcards themselves
Used **Google Cloud NLP API** to perform **keyword extraction** and provided an **RESTful API** abstraction layer to the algorithm using **containerized Google Cloud Run protocols** with **NodeJS** for the backend and **VueJS** and **TailwindCSS** for a user-friendly frontend
Releasing the application as an active **open-source project** to develop more useful frontend features and a custom-built sophisticated question generating algorithm using machine learning
- Smart Parking • IoT Application Spring 2017
Created an automated parking dashboard prototype that lets drivers know of vacant parking spaces to prevent congestion, potential accidents, and frustration of roaming to find a parking space
Used **ultrasonic sensors** and **Arduino C++** to detect the presence of a car in a parking space and managed data using **RESTful HTTP** requests with **PHP** and **Xampp SQL server** and presented that data to a **JS/HTML/CSS** web dashboard
Published working video on YouTube and a detailed build guide on Instructables, receiving **45000+** views, with over **50** community interactions and discussions, with some even responding with their own replica of the project by following my guide

🏆 Honors

- Governor's Honors Program** - 1 of 15 students in Georgia to be selected as Software Engineering finalist
- LemelsonMIT Inventeam** - 1 of 15 schools in the nation to receive \$10000 grant to build our stair wheelchair invention
- GA Student Technology Competition** - 10 time 1st place and \$250 winner for Internet Applications in state and county