Sidharth Gopala Krishnan

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EDUCATION

APJ Abdul Kalam Technological University — Kottayam, Kerala
Bachelor of Technology in Computer Science — *Nov. 2021 – June 2025*

St. Mary's Convent Sr. Sec. School — Faridabad, Haryana
Science - PCM — *Aug. 2019 – May 2021*

PROJECTS

EduLex AI | *React Native, ARCore, Next.js, Node.js, Supabase, MongoDB, Fast API* — July 2024 - Present
- Developing an AR/AI assistant teacher to support dyslexic students with personalized feedback and learning activities.
- Potential features include interactive games, community support, multilingual support, parental tracking, and interview preparation for dyslexic adults.
- Technologies used are React Native for high-performance cross-platform app development, Fast API/Node.js for robust backend services, and OpenCV/ARCore for advanced OCR and AR functionalities.
- Hume AI API is used for facial expression and voice analysis to provide personalized feedback and adaptive learning experiences.

Desktop-Based Voice Assistant | *Python, tkinter, HTML, CSS, JavaScript* — Feb 2024 – May 2024
- Developed a voice assistant application with features such as WhatsApp messaging, reminders, weather updates, news updates, and a search assistant using various APIs.
- Used Python libraries including pyttsx3, speech_recognition, pywhatkit, BeautifulSoup, and pyautogui.
- Integrated multiple APIs for functionality, ensuring smooth performance and a user-friendly experience.

Smart Shoe for Visually Impaired | *Arduino, C++* — Nov 2023
- Designed an IoT-based shoe equipped with sensors that detect obstacles and alert users through vibrations and beep sounds when objects are within a certain threshold.
- Utilized Arduino Uno, sensors, and a vibrating motor, programmed with C++, to create a functional prototype.
- Incorporated real-time feedback mechanisms to adjust alert thresholds based on the user's environment, improving the shoe's adaptability and accuracy in detecting obstacles.

Discord Bot | *Python, discord.py* — March 2023
- Developed a Discord bot to handle welcome messages and basic commands for server management using the discord.py library.
- Successfully deployed and used by various servers.
- Implemented features such as automated welcome messages and command responses to enhance user interaction.

ACHIEVEMENTS

Spark Venture 2024 Ignite Innovation Challenge: Secured 1st place in a collaborative competition organized by Toc H Institute of Technology and Freshton Analytics Pvt Ltd. Awarded funding of 1 Lakh INR for proposing an AI and AR-based solution designed to assist individuals with dyslexia.

Secured **First Prize** in a college-level bug hunt competition, recognized for individual expertise in identifying and resolving software issues.

TECHNICAL SKILLS

Languages: Python, HTML, CSS, JavaScript, C, SQL
Frameworks: React.js, Node.js, discord.py, Arduino
Developer Tools: Git, VS Code, PyCharm
Libraries: tkinter, BeautifulSoup, pyttsx3, speech_recognition, pywhatkit, pyautogui