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Mohamed Farhan Fazal

Studying in the Department of Electronics and Communication, full of interests to learn and explore engineering as well as other non-academic aspects. I know programming in C, Python, HTML, CSS, Embedded C, C++ and Dart.

Education

2016

Secondary School / Presentation Public School, Mysore

In 2016 I graduated from my high school and secured 10 CGPA in my class 10^{th}. I was also the Head Boy (School Captain) of the school for the year 2016.

2018

Senior Secondary School / Kendriya Vidyalaya, Mysore

I completed my senior secondary schooling in Kendriya Vidyalaya Mysore, and secured 86% in my class 12^{th} examinations. My life completely changed after entering KV, had more than just the academics, had been to DRDO Bangalore for participating in an All India Senior Secondary level Science competition cum exhibition.

Since 2018

University / JSS Science and Technology University, Mysore

Secured a good ranking in CET-2018 and took admission in the most prestigious college, JSS Science and Technology University, in the department of Electronics and Communication, which in fact has proved to be very encouraging.

Projects

Home automation

IoT Home automation using python and Adafruit libraries on a Raspberry Pi 3B to control lights and fans in home using a web-based interface as well as the all known Google Assistant and Amazon's Alexa. The lights and fans were controlled by the relays connected to the GPIO pins of the Raspberry Pi.

Recently upgraded it with an MCU with much faster response time and a private Blynk Server.

NAS / Network connected Storage

Built a network connected storage using a SMB (Samba) and an FTP server on a Raspberry Pi 3B connected to home network that can be accessed from any device connected to the local area network, the ftp server allows the users to view and download files but doesn't allow them to modify or write data to the drive. But the SMB protocol allows the users with an admin access password to read as well as write data to the NAS from any authenticated ID.

Set up my own Gigabit Network in home

I have set up my own Gigabit Ethernet in my home using a gigabit switch, CAT 6 networking cables and a secured Wi-Fi network both running on 2.4Ghz and 5Ghz, which provides more speed as well as high bandwidth.

Line Follower Robot

Built a line follower robot and participated in the competition held by IEEE SJCE last year and secured 3rd position. The line follower was built using an Arduino Board, a Motor driver, IR Array, Motors and a lot of efforts from me and my team.

My Own Website

I recently built my own website on a custom HTTP server running on my Raspberry Pi, using the LAMP (Linux, Apache, MariaDB, PHP) and deployed it using the Word Press Engine (The same that our college website runs on).

Android Application for controlling Home Appliances

I also made an android application that runs on most of the android devices which also has google speech to text engine that processes speech and sends http requests that change the database. The changes in the database was reflected in the MCU operation.

Deploying a Custom Media Server on the Internet

I deployed a private media server that can be accessed by the authorized users anywhere from the world. The media server is run by the Plex Media Server also installed on the Raspberry Pi with an SMB server for data manipulation from anywhere.

Visual Analyzer using Python and Arduino

The real time conversion of the audio signals that's being recorded by the microphone (or relayed back to the pc using software like VB cable), from time domain to frequency domain, with the help of the FFT library and plotting them on a log scale. And also building a prototype for the same using the Arduino Dev. Board.

Fire detection using AI

Fire detection using python libraries like OpenCV, TensorFlow, NumPy, ImageAi to detect fire in the forests and to automate the process of extinguishing it.

Alexa on Raspberry Pi

I have developed a prototype of Alexa voice assistant using the SDK provided by Amazon Voice Services on a Raspberry Pi, an inexpensive single board pc.

Deployed website on GitHub

Converted a WordPress core website into a static one and deployed it on GitHub Pages which not only improves speed, but also provides better security by delivering static pages when compared to WordPress executing php scripts every time one visits a website.

- Visit the website https://fazals.ddns.net

More on me

I have all of the skills and experience that you're looking for and I'm confident that I would be a superstar in the tech domain. I'm also passionate about this industry and I'm driven to deliver high-quality work. I have the right experience you're looking for, a track record of successful projects and proven expertise in agile development processes.

At the same time, I have developed my communication skills, which means I am well prepared to work on high-profile, cross-department projects. I have the experience to start contributing from day one and I am truly excited about the prospect of getting started.

Certifications and Achievements

Python for Everybody Specialization (5 Courses)

1. Programming for Everybody (Getting Started with Python)
2. Python Data Structures
3. Using Databases with Python
4. Using Python to Access Web Data
5. Capstone: Retrieving, Processing, and Visualizing Data with Python

Issuing Organization: Coursera
Issue Date: September 2020
Credential ID: ZJU5WB6CSM53
Credential URL: **Verify Credentials**

Building Web Applications in PHP

Issuing Organization: Coursera
Issue Date: August 2020
Credential ID: 3M6BABP92C4L
Credential URL: **Verify Credentials**

System Administration and IT Infrastructure Services

Issuing Organization: Coursera
Issue Date: August 2020
Credential ID: RS4KGSGBCNF9
Credential URL: **Verify Credentials**

The Bits and Bytes of Computer Networking

Issuing Organization: Coursera
Issue Date: September 2020

Credential ID: T3A6FG9FS4ZB
Credential URL: **Verify Credentials**

Technical Support Fundamentals

Issuing Organization: Coursera
Issue Date: August 2020
Credential ID: CAXB7P6G4DFM
Credential URL: **Verify Credentials**