




# Vignesh Thanigaivel

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## Professional Summary

Web designer with a strong technical background, proficient in Python, HTML, CSS, and C. With extensive experience in server building, administration, and web development, I have a proven track record of designing and implementing robust web applications and server infrastructures over my freelancing projects. My expertise spans from front-end design to back-end server management. I thrive in dynamic tech environments, where I can leverage my skills to innovate and enhance user experiences. I am passionate about staying up-to-date with industry trends and continuously improving my craft to deliver high-quality, reliable solutions.



## Employment History

### Server Administrator, Freelance.

Jun. 2023 - Present

- Develop robust Linux servers and server software system for live streaming, media distribution and validation procedures.
- Monitor functioning of equipment to ensure system operates in conformance with specifications and requirements.
- Develop and maintain online media streaming platforms.
- Analyse information to determine, recommend, and plan installation of a new windows and Linux based servers & systems and modification of existing system.

### Server Design & Administration (Internship), RC Studios. Coimbatore, Tamil Nadu

Jul. 2024 - Aug. 2024

- Engineered and deployed Nginx-based Linux servers to facilitate media streaming, multi-resolution packaging in a single RTMP output stream.
- Developed a client-side receiver utilizing HLS player technology for seamless media playback compatible with RTMP.
- Processed multiple formats and resolutions from a single media stream using FFmpeg.
- Gained practical and hands-on knowledge on port forwarding, ipv6 tunnelling, FTP servers, router & static IP configurations.

### Wireless Sensor Networks (Internship), Indira Gandhi Centre for Atomic Research [IGCAR]. Kalpakkam, Tamil Nadu

Jun. 2024 - Jul. 2024

- Designed a wireless packet loss testing mechanism using 25 Zigbee modules and Cortex M0+ based SAMD20 microcontroller, demonstrating my ability to work with wireless communication technologies and advanced microcontrollers.
- Gained knowledge and hands on experience of various wireless communication methods, microcontrollers, IEEE network protocols, serial communication interfaces, and more, to create efficient embedded systems.

### Website Design, FreeLance.

Mar. 2023

- Design, build and maintain robust web site and web app.
- Host websites on Linux based servers and deploy on 3<sup>rd</sup> party servers.
- Register, Renew and Maintain domain name registrations and DNS Records.
- Develop databases that support web applications and web sites.



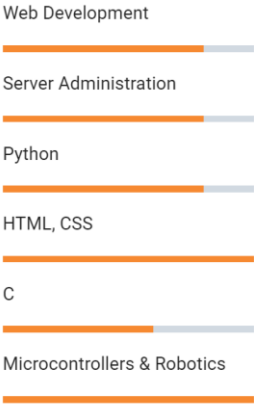
## Education

### Vellore Institute of Technology, Vellore, Tamilnadu

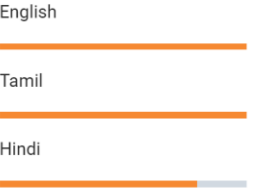
B.Tech, Electronics and Communication Engineering with Specialization in Biomedical Engineering, 2026



## Skills



## Languages



## Publications

### Cloud-Controlled Dynamic Smart Street Lighting System

R Rishab, S Sarumathi, Vignesh T A, Gokul Nittin A, Janani Shruthi B, Abhishek V, K Govardhan  
2023 International Conference on Next Generation Electronics (NEleX)

**Date of Conference:** December 14-16, 2023

**Published in IEEE Xplore:** February 16, 2024

**DOI:** 10.1109/NEleX59773.2023.10420861

### IoT and Cloud-based Automated Irrigation System

K G Anandha Jothi, Vignesh T A, Gokul Nittin A, Vinoth M, Janani Shruthi B, Abhishek V, K Govardhan  
2024 3rd International Conference on Artificial Intelligence For Internet of Things (AllIoT)

**Date of Conference:** December 03-04 May 2024

**Published in IEEE Xplore:** July 02, 2024

**DOI:** 10.1109/AllIoT58432.2024.10574611