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 server 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.
- Analyze information to determine, recommend, and plan installation of a new system and modification of an existing system.

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

Jul. 2024 - Aug. 2024

- Engineered and deployed Nginx-based 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.

Wireless Sensor Networks (Internship), Indira Gandhi Centre for Atomic Research [IGCAR]. Kalpakkam, Tamil Nadu
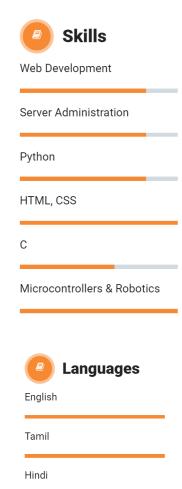
Jun. 2024 - Jul. 2024

- I had 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 web sites.
- Host websites on servers and maintenance.
- Install and configure hypertext transfer protocol (HTTP) servers and associated operating systems.
- 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

Web Development

Server Administration

Python

HTML, CSS

C

Microcontrollers & Robotics

Languages

English

Tamil

Hindi

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