

VENKATESAN M

UNDERGRADUATE COMPUTER SCIENCE STUDENT

CONTACT



+91 6374900460



venkatesan.m2022@vitstudent.ac.in



venka-tesan-portfolio.vercel.app



Chennai, Tamil Nadu

WORK EXPERIENCE

CracKube Pvt Ltd

Intern

February 2023 - August 2023

Linux Club VIT, Chennai

Team Lead

July 2023 - Present

Microsoft Innovations Club VITC

Designer

March 2023 - Present

IEEE EMBS Chapter- VIT

Designer

February 2023 - Present

EDUCATION

Bachelor of Technology In Computer Science and Engineering

Vellore Institute of Technology

2022 - 2026

CGPA : *9.12

High School Diploma in Computer Science and Maths (CBSE).

Kendriya vidyalaya

(2010 - 2022)

Score : 92%

LANGUAGES

English

Hindi

Tamil

SKILLS

Programming Languages : Python, JavaScript, C, C++, Java.

Front-End Technologies : ReactJS, ThreeJS, MUI, Tailwind, JQuery.

Back-End Technologies : NodeJS, ExpressJS, MongoDB, SQL.

Other-Tools : Arduino, Git/Github, Linux, Blender, Figma.

PROJECTS

Quadruped Robot - Alpha!

Introducing our Quadrupled Robot Alpha! Designed to explore the future of autonomous companionship

Led development of Quadrupled Robot Alpha, a Boston Dynamics Spot Mini-inspired project. Achieved MVP in one month with a \$200 budget. Implemented 12 DoF biomimetic movement, Inverse Kinematics for versatile motions, and integrated ESP32 Cam for live stream and YOLOv3 Algorithm for object detection. Future plans include firmware enhancement, custom controller app, and Lidar sensor integration.

Take a look at our presentation - <http://surl.li/ncgbo>

Portfolio Website

"Room Portfolio": A 3D masterpiece crafted with THREEJS, GSAP, and Asscroll for a seamless web experience.

Developed "Room 🏠 Portfolio" using THREEJS, GSAP animations, and Asscroll for a seamless web experience. Modeled house in Blender3D, exported as GLB, and loaded on canvas using GLTF/DRACOLoader. Implemented GSAP for timeline animation triggered by Scroll-Trigger. Achieved smooth scrolling with Asscroll. Inspired by Bokoko, mentored by Abigail Bloom.

Take a look at Live-Website- venka-tesan-portfolio.vercel.app

Product Showcase Website

3D Customized Fashion Store with AI Integration. Craft your ideal T-shirt from a diverse array of choices.

Led development of an AI-Powered 3D Customized Fashion Store using Three.js, React, React Three Fiber, Tailwind CSS, and Framer Motion on the front end. Implemented Express.js for backend, integrating OpenAI DALL-E API. Utilized Vite as build tools. Achieved features like dynamic T-shirt customization with color options, logo and texture uploads, and AI-generated designs.

Take a look at Live-Website- <http://surl.li/ncgcf>

Parallelizing of Neural Network

parallelized Neural Network with varying thread counts, achieving an impressive 90.4% prediction accuracy!

Successfully parallelized Neural Network training on MNIST dataset using OpenMP, demonstrating expertise in multi-platform shared memory multiprocessing programming in C, C++. Achieved efficient solutions, showcasing strong problem-solving skills.

Take a look at our presentation - <http://surl.li/ncgay>