SUNII. V

+91 9739014528 - sunil2k30@gmail.com - https://www.linkedin.com/in/sunil-v-281832184/https://sunil-v-2k.github.io/Portfolio.github.io/ - github.com/Sunil-V-2k

ABOUT

Detail-oriented and driven Computer Science and Engineering student with strong programming and software development foundation. Skilled in Python, Java, JavaScript, and SQL, with practical experience in full-stack development, real-time systems, and algorithm optimization. Demonstrates strong problem-solving and analytical skills. Passionate about contributing to high-impact IT projects and collaborative environments.

EDUCATION

Jawaharlal Nehru New College of Engineering

Computer science and engineering

Acharya Polytechnic College

Diploma in Aeronautical Engineering

Toyota Technical Training Institute

Full-time Apprenticeship – Automobile Assembly

Shimoga, Karnataka Dec 2023 - Pursuing

Bangalore, Karnataka Nov 2020 - March 2023

Bangalore, Karnataka

Apr 2016 - Aug 2019

TECHNICAL SKILLS

Programming Languages: Python, C, JavaScript, Java

Web Development: HTML, CSS, JavaScript, PHP

Database: MySQL, MongoDB Libraries: Pandas, NumPy

Concepts: SDLC, Agile, Data Structures, Cloud Computing, Frameworks/Tools: Rea

Machine Learning, Networking (TCP/IP, HTTP)

Frameworks/Tools: React, Node.js, Express, Git, OpenCV,

PROJECTS

Quick Meal

Quick Meal is a full-stack food ordering app built with React(Vite), Node.js, Express, MongoDB, and Tailwind CSS. It features secure JWT authentication, a dynamic admin dashboard, robust REST APIs, and a clean, modular design using Mongoose, role-based access, and a real-time, mobile-friendly UI - delivering a smooth, and cloud-ready food tech.

· Full-Stack Instant Messaging Platform

Developed a full-stack real-time chat application using Node.js, Express.js, and Socket.io, enabling instant messaging with a modern, responsive interface. Implemented secure JWT authentication and a MongoDB database to persist user data and chat history. Leveraged Socket.io for live, bi-directional communication—showcasing expertise in real-time web technologies and seamless frontend-backend integration.

• Face Detection

Optimized real-time face detection using OpenCV and Haar Cascade classifiers by profiling bottlenecks and applying frame skipping, threading, and memory caching techniques. Replaced default frame processing, reducing latency by 50+ ms per frame under high-load video streams. Resulted in a 30% boost in processing throughput.

• Encoding Decoding using Huffman code

Developed a robust data compression utility using java script and php, implementing Huffman Trees with custom Min-Heap and Priority Queue structures. Enhanced traditional methods by introducing frequency-based pre-sorting and bit-level stream encoding, leading to a 30% memory footprint reduction.

· Face Filter App

Developed a Python-based real-time face filter application using OpenCV and MediaPipe to detect facial landmarks and overlay virtual filters like glasses and mustache. Optimized performance for smooth video streaming and accurate filter placement.

INTERNSHIP

IoT Data Analysis Intern

Sumana Embedded Technologies

June 2025 – Presen

 Assisting in the development of data-driven insights by analyzing real-time sensor outputs from IoT-enabled embedded systems. Working with large streams of time-series data to detect anomalies, optimize device performance, and support predictive maintenance. Additionally, exploring wireless communication protocols like MQTT and BLE, and helping synchronize device metrics securely with cloud platforms.

CERTIFICATION/SHORT COURSES

- Automotive SkillsDevelopment Council (ASDC)
- Japan-India Institute forManufacturing (JIM)
- National Apprentice Certificate(NAC)

ACHIEVEMENTS

- Secured **First** Place in **Tech Cyber Loop**
- Won First Place in Primed: Hackathon
- Secured Third Place in Quizstatic

- Secured Third Place in Tech Codizz
- led the organization TechZone 2k25
- · Hosted and Organized Anveshana 2k25