

SUNIL V

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ABOUT

Motivated Computer Science and Engineering student with a good foundation in programming and software development. Proficient in Python, Java, and SQL, with experience in application development and algorithm optimisation. My engineering background, and prior work experience enhance my problem-solving and analytical skills. I'm Eager to apply my technical knowledge and teamwork to innovative IT projects.

EDUCATION

Jawaharlal Nehru New College of Engineering

Computer science and engineering

Shimoga, Karnataka

Dec 2023 - Pursuing

Acharya Polytechnic College

Diploma in Aeronautical Engineering

Bangalore, Karnataka

Nov 2020 - March 2023

Toyota Technical Training Institute

Full-time Apprenticeship – Automobile Assembly

Bangalore, Karnataka

Apr 2016 - Aug 2019

TECHNICAL SKILLS

Programming Languages: Python, C, Java

Web Development: HTML, CSS, Javascript, php

Database: MySQL

Libraries and Tools: Pandas, Numpy, Git

Development: Agile methodologies

Data structures

Cloud Computing

Machine Learning

Networking fundamentals (TCP/IP, HTTP)

PROJECTS

• 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.

• Queue Management System

Developed a real-time queue management system using PHP, MySQL, and JavaScript with AJAX to dynamically add, serve, and display customer queues. Optimized user interaction through responsive HTML/CSS, visual alerts, and live table updates, while ensuring database-driven persistence and time-based estimation. Employed structured modular coding and error handling across frontend (script) and backend (php files) for robust, real-world scalability.

WORK EXPERIENCE

Designer & Tooling Supervisor

Cyient DLM Pvt. Ltd., Karnataka

May 2023 - Nov 2023

- Worked as a Designer & Tooling Supervisor, creating detailed CAD models and collaborating with R&D and production teams to improve tooling efficiency and reduce rework time.

CNC Machine Programmer & Operator

Sansera Engineering Pvt. Ltd., Karnataka

Apr 2019 - Jan 2020

- Operated and programmed CNC machines, ensuring high-precision output while working closely with engineering teams to enhance machine performance.

Production Member & Quality Member

Toyota Kirloskar Motor Pvt. Ltd., Karnataka

May 2016 - Mar 2019

- Worked across various production lines and contributed to final line quality assurance, using problem-solving skills to support efficient manufacturing processes.

CERTIFICATION/SHORT COURSES

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

ACHIEVEMENTS

- Secured **First** Place in Tech—Cyber Loop conducted organized by IKP Eden on 2ndDecember 2024
- Secured **Third** Place in Tech—Codizz conducted on theoccasion of IEEE Daycelebration,organized by theDept. of CSE, JNNCE on 8thoctober 2024