

Shanjay Athithya

[Portfolio] | shanjayathithya2004@gmail.com | 9488262579

EDUCATION

SSN COLLEGE OF ENGINEERING

B.TECH INFORMATION TECHNOLOGY

OMR, Chengalpattu, Tamil Nadu

Cum.GPA:8.45 | Grad:July 2026

KEINS MATRIC HR SEC SCHOOL

HSC

Valliyur, Tirunelveli, Tamil Nadu |

PERCENTAGE: 94.7

LINKS

Github: [shanjay-athithya](#)

LinkedIn: [Shanjay Athithya](#)

Coding Profile: [shanjay_athithya](#)

COURSEWORK

Data Structures

Algorithms

Object Oriented Programming

Design Patterns

Database Management Systems

Networks

Microprocessor and Microcontroller

Human Resources

Universal Human Values

SKILLS

Languages

Python • HTML5 • CSS/TailwindCSS •

Javascript • Java • C++

Frameworks

Django • Flask

Databases

SQL/MySQL • SQLite3 • Firebase

Libraries

Numpy • Pandas • React.js

Tools

VSCode • GitHub

Others

Online Privacy and Security •

Communication • API

CERTIFICATIONS

- Django Essentials [Link]
- Programming In Java [Link]
- Crash Course On Python [Link]
- Privacy and Security in Online Social Media [Link]
- Communication Skills [Link]

PROJECTS

WATERFLOW MANAGEMENT SYSTEM [NexGenFlow]

DJANGO | PYTHON | SQLITE3 | JAVASCRIPT | HTML | CSS | NEO4J

April 2024 – May 2024

- Enhanced data-driven decision-making and **water flow optimization**.
- Analyzed overall flow rates and **efficiency** for each node and edge in the water network.
- Prevented **duplicate edges** to ensure data integrity and accurate network representation.
- Integrated **GPS** and **location data** to automatically calculate the length of pipes.

CHATBOT FOR CAREER AND JOB OPPORTUNITIES [Beta]

NEXT.JS | REACT.JS | TAILWINDCSS

May 2024 – June 2024

- Features include job-related query handling, career advice, and user-friendly **chat interface**.
- Detailed conversation tracking enables the bot to provide tailored responses to **job and career-related questions**.
- Administrators can manage bot responses and oversee **conversation logs**, ensuring accurate and timely information delivery, with real-time **API integration** for enhanced user assistance.

CLIMATE MONITORING SYSTEM [Climard]

ARDUINO | C++ | WiFi | HTTP | IOT | SENSORS

June 2024 – July 2024

- Developed a **real-time climate monitoring system** using Arduino to measure temperature, humidity, and light intensity.
- Utilized **WiFi connectivity** to send sensor data to a remote server and fetch **updated threshold values**.
- Ensured system reliability through **periodic threshold updates** and real-time data transmission to enhance monitoring accuracy.

BLOODBANK MANAGEMENT SYSTEM [BloodSync]

DJANGO | PYTHON | SQLITE3 | HTML | CSS | JAVASCRIPT

Nov 2023 – Dec 2023

- Developed a comprehensive **blood bank management system**.
- **Features:** patient management, donor integration, blood inventory tracking, authentication, and authorization.
- Finding the **blood donor matches** for patients according to their **blood group** and availability and providing their **contact details**.

HOSPITAL MANAGEMENT SYSTEM [MedHub]

DJANGO | PYTHON | SQLITE3 | HTML | CSS | JAVASCRIPT

Oct 2023 – Dec 2023

- Developed a comprehensive **hospital management system** utilizing **design patterns** to enhance the **efficiency of healthcare processes**.
- **Features:** patient management, disease processing, doctor directory, patient history tracking, robust authentication and authorization mechanisms.
- Implemented **custom iterators** to efficiently manage and retrieve **patient history** data.

