

# Shanjay Athithya

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## 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<sub>a</sub>thithya](#)

## 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 • ReactJs  
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**.

