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, Tiruneveli, 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 Resourses
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 | DHT11 | LDR
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.