

CAREER OBJECTIVE

A passionate Backend Developer with a strong foundation in Python, Django, and Web development technologies, seeking to contribute to innovative and scalable software solutions while continuously enhancing my technical and problem-solving skills.

EDUCATION

Course	College/University	Year	CGPA/%
Undergrad  BCA	Mother Teresa Women's University	2020-2023	90%
Intermediate/+2	Annamalaiyar Mills Girl's Higher Secondary School	2020	56%
High School	Pannai Matric Higher Secondary School	2018	92%

SKILLS & INTERESTS

- **Programming Languages:** Python
- **API Development:** Beginner level, REST APIs (using Django REST Framework)
- **Full Stack Development:** Basic knowledge of Front-end (HTML, CSS, JavaScript) and Back-end (Django) development
- **Libraries / Framework:** NumPy, Pandas
- **Data Structures & Algorithms:** Arrays, Linked Lists, Stacks, Queues, Binary Search, Sorting Algorithms (e.g., Bubble Sort, Merge Sort, Quick Sort)
- **Databases:** SQLite3
- **Tools and Technologies:** Git, Visual Studio Code
- **Problem Solving:** Engage in programming challenges on platforms like LeetCode, GeeksforGeeks to hone problem-solving and coding skills.
- **Chatbot Development (Self Interest):** Taken an initiative in building conversational AI systems using Python and Natural Language Processing (NLP) libraries like NLTK, integrating with frameworks such as Django and web services.

WORK EXPERIENCE

Software Trainee| Indian Oil Corporation Limited

Dec 20 2023 - Present

- **System Administration for IOCL:**

Developed a Python-based tool to retrieve and display detailed system configuration information (IP address, CPU usage, memory status, network interfaces, environment variables) for enhanced system monitoring, troubleshooting, and management.

**Responsibilities:**

- Engineered a Python-driven tool to automating system configuration retrieval and real-time monitoring.
- Implemented REST API integration to dynamically fetch and update system data.
- Optimized system performance monitoring by collecting real-time CPU and memory metrics.
- Parterned with cross-functional teams to design a user-friendly interface.
- Enhanced system reliability through thorough testing and debugging.
- Documented tool architecture, functionality, and usage guidelines for smooth team onboarding.

Project Name	SysConfig Insight
Module Name	Platform
Client	IOCL
Domain	System Administration and Monitoring
Duration	July 2024 to September 2024
Technical Skills	Framework: Django Libraries / Modules: NumPy, Pandas Database: Sqlite3 Tools: Visual Studio Code OS: Windows

Software Developer Intern| Lifo Technologies

Oct 2023 – Nov 2023

- **Employee Performance and Development System**
- Designed and implemented an advanced Employee Performance and Development System that helps companies manage employee data, track performance, facilitate professional development, and manage training programs. This system will support both employees and managers in setting goals, tracking progress, and ensuring continuous improvement.

**Responsibilities:**

As a team member, I am responsible for following

- Start with setting up user authentication and basic employee CRUD operations.
- Implementing Django, defining models (like Employee, Performance Review, Training).

Project Name	Employee Performance and Development System
Module Name	SQLite3
Client	Lifo Technologies
Domain	Performance Tracking
Duration	Oct 2023 to Nov 2023
Technical Skills	Framework: Django Database: Mysql Tools: Visual Studio Code OS: Windows

## ACADEMIC PROJECT

### Online Course Management System with Gamification

The "Online Course Management System with Gamification" is a web application designed to streamline the creation, delivery, and management of online courses. This system enhances User engagement by incorporating gamification elements such as points, badges, and leaderboards.

#### Technologies Used:

- **Backend:** Django framework
- **Database:** SQLite3
- **Frontend:** HTML, CSS, JavaScript
- **Gamification Logic:** Custom models and logic for points, badges, and leaderboards

## RELEVANT COURSES

✓ **Basic Python Programming Essentials** | *Coursera* *June 2022*

- Completed foundational course covering core concepts of **Python programming, including variables, data types, control structures, functions, and basic algorithms.**
- Acquired practical skills in writing and debugging Python code, enhancing proficiency in solving computational problems and automating tasks.

✓ **Basic Full Stack Development** | *Qspiders* *August 2023*

- Completed a foundational course in full stack development covering both front-end and back-end technologies. Gained hands-on experience with
- **Front-End:** HTML, CSS, JavaScript for creating responsive and interactive web pages.
- **Back-End:** Django framework for building robust and scalable web applications.
- **Databases:** Introduction to SQL for managing and querying databases.

Strengthened skills in integrating front-end interfaces with back-end logic, enabling seamless user interactions.

## PERSONAL DETAILS

- |                           |   |                                       |
|---------------------------|---|---------------------------------------|
| • <b>Date of Birth</b>    | : | 29-APR-2003                           |
| • <b>Nationality</b>      | : | Indian                                |
| • <b>Languages Known</b>  | : | Tamil & English (Read, Write & Speak) |
| • <b>Current Location</b> | : | Chennai                               |

#### DECLARATION: -

I shall hereby declare that the information furnished above is true to the best of my knowledge.

**Place:** Chennai

[THILAGAVATHI.M]

**Date:**

