

# SONA UDAYAKUMAR

Python Full Stack Developer

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Palakkad, Kerala

## Professional Summary

Computer Science graduate with practical experience in Python Full Stack Development, specializing in Django-based web applications and RESTful API development. Proficient in building scalable backend systems, implementing CRUD operations, authentication, and database management using MySQL. Experienced in integrating frontend technologies such as HTML, CSS, and JavaScript with backend frameworks to deliver complete web solutions. Strong problem-solving skills with a passion for developing efficient, secure, and high-performance applications.

## Professional Experience

### Python Developer Intern

Luminar Technolab, Kerala | July 2025 – March 2026

- Developed **full-stack** web applications using **Python, Django, HTML, CSS, JavaScript**, and **MySQL** following **MVC architecture**.
- Designed and implemented RESTful APIs using **Django REST Framework (DRF)** for handling data exchange between frontend and backend.
- Built secure user authentication and authorization modules including login, registration, password management, and role-based access control.
- Built and optimized **CRUD** operations using **Django ORM**, ensuring efficient database interactions and structured data management.
- Designed and managed relational database schemas in **MySQL**, improving data storage, retrieval efficiency, and application performance.
- Integrated frontend components with backend APIs to deliver dynamic and interactive web application features.
- Performed testing, debugging, and performance optimization to ensure application stability and reliability.

## Core Competencies

- Python**
- HTML**
- Django**
- CSS**
- JavaScript**
- MySQL**
- React**
- Git**
- VS Code**

## Projects

### Hospital Management System

- Developed a role-based hospital management web application using Django and MySQL to efficiently manage patients, doctors, and appointment scheduling within the system.
- Implemented secure authentication and authorization mechanisms for multiple roles including Admin, Doctor, and Patient to ensure controlled access to system features and data.
- Designed and implemented database models, backend logic, and CRUD operations using Django ORM to manage patient records, doctor details, and appointment information efficiently.

### ElectroMart (Web Application)

- Developed a full-stack e-commerce web application using Django and MySQL that allows users to browse products, create accounts, and securely purchase items online.
- Implemented product management, shopping cart functionality, and order processing features using CRUD operations to provide a smooth online shopping experience.
- Designed RESTful APIs and responsive frontend using HTML, CSS and JavaScript.

### FreshBasket (Web Application)

- Built a web-based grocery ordering system that allows users to browse products, add items to the cart, and place orders through an interactive product catalog.
- Integrated MySQL database for order tracking and inventory management.
- Implemented secure user authentication, backend logic, and database operations using Django ORM to ensure reliable and efficient application performance.

## Education

**BTech in Computer Science and Engineering | CGPA: 8.41 | 2021 – 2025**

Nehru College of Engineering and Research Centre, Pampady, Thrissur