

# Thakur Suryaveer Singh

Senior Software Engineer (10.5 years of Experience)

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Python • Django • Flask • AWS • PHP • MySQL/Oracle • Git / Git Actions • CI/CD pipeline

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## OVERVIEW

Experienced Software Engineer with 10+ years of expertise in backend systems, automation tools, and data pipelines using Python, Django, and Flask. Skilled in building scalable web applications and REST APIs with clean architecture, modular code, and database operations including MySQL, Oracle Wallet, and DB Triggers. Strong background in Shell Scripting, Linux Utilities, and CI/CD workflows using Git Actions, CircleCI, and Git pipelines to ensure smooth integration, testing, and deployment.

Hands-on experience in designing and optimizing ETL workflows to process data from APIs, files, and cloud-based sources. Skilled in integrating Python/Django applications with AWS services (S3, EC2, RDS, Lambda) for deployment, monitoring, and reporting. Recently worked on POCs such as data ingestion pipelines, automated dashboards, and high-performance queue systems, along with AWS Cloud Practitioner training to strengthen cloud fundamentals.

## CERTIFICATIONS & TRAINING

- **Actively working on AWS Data Engineering POCs using Python / Django and Snowflake**
- **AWS Cloud Practitioner Training** – Completed, 2024

## TOOLS

PyCharm, VS Code, PhpMyAdmin, HeidiSQL, JIRA, Git, SVN, CircleCI (CI/CD pipeline), Git Actions, Linux Shell scripting, Oracle Wallet utilities

## DOMAIN

E-commerce, Publication

## SKILLS

### Python / Django

(4/5)

### PHP

(4/5)

### WordPress / WP VIP

(4/5)

AWS (S3), Docker, Git

(3.5/5)

### SQL / MySql / Oracle / DB

#### Triggers

(3.5/5)

### HTML, CSS, jQuery

(4/5)

### REST APIs, XML/JSON Parsing, Log Processing

(4/5)

### Agile

(3/5)

### Linux Shell Scripting

(3/5)

### Git Actions, CI/CD pipelines

(3/5)

## EXPERIENCE

### InfoBeans Technologies Limited, Pune, India

Senior Software Engineer

August 2022 - Present

### Infogain India Pvt. Ltd., Noida, India

Senior Consultant, Development

April 2019- August 2022

### DigitalHive, Gurgaon, India

Web Developer

February 2015- December 2018

## PROJECTS

### Project 1 - Aug 2025 - Aug 2025

POC Load Balancer: FastAPI + Flask + MySQL  
(FIFO Queue + Semaphore + Reporting)

Tools & Technologies

Python, FastAPI, Flask, MySQL, Bootstrap

Team Size

1

Role

Senior Software Engineer

Developed a Python-based system to handle high volumes of incoming requests with FIFO queue processing, concurrency control, and reporting.

Responsibilities & Achievements:

- Designed and implemented a FIFO queue with worker threads and semaphore-based throttling.
- Built REST APIs using FastAPI for task

## EDUCATION & TRAINING

2014

Master of Computer Applications

Babu Banarasi Das Institute of Technology,  
Ghaziabad

2011

Bachelor of Computer Applications

Teerthanker Mahaveer University, Moradabad

2008

Higher Secondary School Certificate, UP Board

Krishna Bal Mandir Inter College, Amroha

2007

High School Certificate, UP Board

Krishna Bal Mandir Inter College, Amroha

### Project 2 - April 2025 - July 2025

Weather Insights Data Pipeline (POC)

Tools & Technologies

Python, Django, AWS (S3), Snowflake, Pandas,  
REST APIs

Team Size

1

Role

Senior Software Engineer

To build an end-to-end AWS-powered data pipeline using Python and Snowflake for ingesting, transforming, and visualizing weather data from public APIs.

Responsibilities & Achievements:

- Designed a modular ETL pipeline using Python to process weather data.
- Integrated Django for building a reporting UI

queue management and reporting.

- Developed a Flask-based dashboard for monitoring task statuses and progress.
- Integrated MySQL for persistent storage of task logs and metrics.
- Conducted load testing using Apache Benchmark to ensure system reliability under high traffic.

### **Project 3 - July 2024 - Dec 2024**

#### Smart Interview Assessment

##### Tools & Technologies

Python, Django Flask, OpenCV, whisper, Face Recognition model, Speech Recognition model, Hugging Face

##### Team Size

4

##### Role

Senior Software Engineer

Smart Interview Assessment uses technology to evaluate a candidate's confidence during a job interview. It creates a visual representation to show the confidence levels of both the candidate and the interviewer. This visual representation helps employers assess the interview's effectiveness and make informed decisions about potential hires.

##### Responsibilities & Achievements:

- Built a confidence detection system using **Python**, integrating **OpenCV**, **face and speech recognition models**, and **Whisper** to analyze real-time audio-visual cues during interviews.
- Developed a web-based interface using **Django and Flask** to visualize candidate and interviewer confidence levels, enabling data-driven hiring decisions.

for data review and trend analysis.

- Automated data pipeline using AWS Lambda and scheduled it with CloudWatch Events.

### **Project 4 - April 2024 - July 2024**

#### Badminton Shot Detection

##### Tools & Technologies

Python, Django, OpenCV, Face Recognition model, Movenet, Panda, NumPy, Matplotlib, image processing

##### Team Size

3

##### Role

Senior Software Developer

To develop a robust AI model using MoveNet for accurate detection and classification of various badminton shots. The project aims to achieve high accuracy, real-time performance, and scalability for different badminton shots. The system should help players analyze their performance and ensure fairness during matches by correctly identifying shots played during gameplay.

##### Responsibilities & Achievements:

- Developed a real-time shot detection system using **MoveNet** and **Python**, capable of accurately classifying various badminton shots from player movement and posture data.
- Built a scalable and responsive AI pipeline to support performance analysis and ensure match fairness through precise in-game shot recognition.
- **Managed database interactions** using MySQL for storing booking details, user sessions, and transaction logs.

## **Project 5 - Aug 2022 - April 2024**

### **Foundry**

#### **Tools & Technologies**

WordPress VIP, PHP, MySQL, React Js, HTML 5, CSS

#### **Team Size**

8

#### **Role**

Senior Software Engineer

#### **Responsibilities & Achievements:**

- I was part of the profile module team.
- My role is to develop business logic in PHP and WordPress VIP.

Transferring content from various content management systems (CMS) alongside existing features to WPVIP involves the utilization of two HUBs: B2B and B2C, each catering to a distinct workstream. The content from different CMS platforms is seamlessly migrated to these HUBs, which serve as the central point for content management by the editorial team. These HUBs are subsequently linked to one or more delivery sites, where the content produced within the HUBs is accessible to end users.

Visitors to these delivery sites are presented with content relevant to the specific site they are on. Notably, a significant number of custom-made Gutenberg blocks have been developed. These blocks offer a code-free experience for content editors, simplifying the editorial process. This unique architecture not only streamlines the publishing workflow but also ensures equitable distribution of traffic across the various sites.

## **Project 6 - Aug 2024**

Infobeans Sports Website

#### **Tools & Technologies**

WordPress, PHP, MySQL, jQuery, HTML 5, CSS

#### **Team Size**

2

#### **Role**

FullStack Developer

Developed an internal website for company sports events, featuring player registration, auctions, match schedules, results, points tables, and news updates. Streamlined team registration processes for multiple sports, enhancing event organization. Designed and built the platform using WordPress for a seamless user experience and integrated

## **Project 7 - Apr 2018 - Nov 2022**

Infogain Global Website

#### **Tools & Technologies**

WordPress, PHP, MySQL, jQuery, HTML 5, CSS

#### **Team Size**

3

#### **Role**

Software Engineer

This is the Infogain Corporate Website. Infogain is a Silicon Valley headquartered company with software platform engineering and deep domain expertise in travel, retail, insurance, and high technology. We accelerate the delivery of digital customer engagement systems using digital technologies such as cloud, microservices, robotic process automation, and artificial intelligence to our clients.

advanced functionalities with Node.js, Sockets, and modern web technologies like HTML/CSS and ES6.

#### Responsibilities & Achievements

- It is a custom theme developed within 15 days.
- Admin can edit every page from the backend

#### Responsibilities & Achievements

- Worked as a backend developer
- Created Custom post type for the website
- Created Custom plugins according to the requirements
- Created REST API for custom posts according to the requirements
- Created custom login, user roles, and Access level
- Performed unit testing

### PERSONAL DETAILS

#### DOB

Oct 08, 1990

#### Gender

Male

#### Nationality

Indian

#### Marital Status

Married

#### Email ID

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#### Contact Number

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