

# Surendar M

## Python Developer

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### SUMMARY

Python Developer with 6+ years of experience designing and implementing scalable backend systems, APIs, and data-driven solutions in finance, inventory management and insurance. Proficient in Django, FastAPI, Flask and real-time data pipelines. Strong track record of optimizing system performance, automating workflows, and improving data accuracy, resulting in enhanced operational efficiency and business outcomes.

### EXPERIENCE

#### Senior Engineer

OCT 2024 - Present

##### Tiger Analytics, Chennai

- Developed dashboard APIs, optimized code performance during database migration from Redshift to Snowflake, resolved bugs, and conducted thorough security checks to ensure system reliability and data integrity.
- Worked with AWS Lambda to perform API testing, ensuring efficient and serverless validation of endpoints
- Developed a Python automation script for a data extraction and processing project, enabling efficient export of data from ZIP files and storage in an MS SQL database.
- Configured a Windows background scheduler to run Python scripts every minute, ensuring continuous data processing.
- Created and integrated unit tests with Python's unittest framework for CI/CD pipelines.
- Used Git, GitHub, and GitLab for version control and efficient workflows.

### PROJECTS

**KELLOGG'S** : Worked as a Backend Python Developer, where I developed dashboard APIs for statistical reporting, optimized code performance, fixed bugs, and conducted security checks. Led the migration of databases from Amazon Redshift to Snowflake to improve efficiency and scalability. Utilized AWS Lambda for API testing, enabling streamlined, serverless validation of endpoints.

**ARCH INSURANCE** : Worked as a Python backend developer on a data validation and error tracking solution using Pandas, FastAPI, and MS SQL Server. Automated data extraction and comparison from Excel files, logging discrepancies for reporting. Implemented hourly workflows with FastAPI Scheduler, improving data accuracy, reducing manual effort, and enhancing scalability.

#### Junior Manager

MAR 2022 - OCT 2024

##### Cholamandalam Investment and Finance Company, Chennai

### SKILLS

**Language** : Python, JavaScript, HTML, CSS, Bootstrap

**Framework** : Django, FastAPI, Flask, React, JQuery

**Databases** : MySQL, PostgreSQL, MongoDB, MSSQL, Redis

**Cloud & Tools** : AWS, Git/GitHub/GitLab, Jira, Postman

**Other** : Kafka, Pandas, Numpy, Pydantic, Unit Testing, Agile

### EDUCATION

**B.Tech, Information Technology** – New Prince Shri Bhavani College of Engineering & Technology, Chennai (2014 – 2017)

**HSC** – Kumararajah Muthiah Hr. Sec. School, Chennai (2012 – 2014)

**SSLC** – Kumararajah Muthiah Hr. Sec. School, Chennai (2011 – 2012)

### CERTIFICATIONS

#### Python & Django

TLead, Chennai (2018)

### LANGUAGES

English, Tamil

### PASSIONS

#### Continuous Learning

I have a strong drive to continuously learn new technologies and solutions, regularly participating in webinars, workshops, and courses to enhance my skills.

- Developed web applications and APIs using FastAPI, Flask, Django, and Django REST Framework.
- Built APIs for cross-team data sharing with Kafka and FastAPI.
- Worked on web services, APIs, and microservices using Python requests with OAuth2 for secure communication.
- Wrote complex SQL queries, triggers, and views in PostgreSQL.
- Implemented asynchronous task queues for data pipelines using FastAPI.
- Experienced with NoSQL (MongoDB, Redis) and relational databases (PostgreSQL, MySQL).
- Created and integrated unit tests with Python's unittest framework for CI/CD pipelines.
- Used Git, GitHub, and GitLab for version control and efficient workflows.
- Collaborated with front-end teams to enhance user experience through seamless server-side integration.

## PROJECTS

**PERSONAL LOAN** : Python backend developer for a D2C personal loan app, validating customer eligibility via third-party services (Digilocker, CIBIL, Sherlock, Karza) and enabling online loan disbursements. Used Pandas, Requests, PyMongo, Pydantic, NumPy, FastAPI, and Kafka for data processing, with MySQL and MongoDB for storage and CloudWatch for logging.

**CHOLA ONE** : Contributed as a Python backend developer on a D2C personal and home loan application, handling modules like Login (OTP, biometric, MPIN), Dashboard, Settings, Profile, EMI Calculations, and Refer-a-Friend. Designed and implemented a MySQL database to support app functionality and generate daily MIS reports, enhancing operational tracking and decision-making.

## COMPETENCIES

- Python programming
- Fastapi RESTful web services
- Django web framework
- SQL queries and stored procedure optimization
- Front-end integration
- AWS cloud services
- Automated testing and unit tests
- Security and data protection
- Technical documentation
- Troubleshooting and debugging
- Git version control
- Docker containerization
- Agile methodologies
- Team collaboration and communication

## Senior Python Developer

SEP 2020 - FEB 2022

### Vingsfire HRIM pvt ltd, Chennai, Chennai

- Developed and deployed a RESTful web service using Python and Django, achieving a 25% reduction in server response time and a 15% boost in user satisfaction.
- Collaborated with clients to gather and analyze system requirements, translating them into effective technical solutions.
- Leveraged JavaScript and AJAX to dynamically update webpage content, while using Django Rest Framework for efficient server-side communication.
- Built views and templates with Python and Django, creating user-friendly interfaces through clean, maintainable code and best practices.

## Web Developer

APR 2019 - SEP 2020

### Exeter Premedia Pvt. Ltd, Chennai

- Designed and managed the backend of the company and product websites, including database and server integration to ensure smooth and secure operations.
- Developed responsive, cross-browser compatible applications optimized for maximum speed and performance.
- Converted UX/UI wireframes into clean, reusable, and high-quality HTML5 and CSS3 code, ensuring a seamless user experience.