

Suresh Gopi L

Software Developer | Python Programmer

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Professional summary

Backend Developer and Software Engineer specializing in Python, with hands-on experience in data engineering, REST API design, and full-stack web development using FastAPI, Flask, and React.js. Skilled in building scalable backend systems, integrating SQL databases, and automating industrial processes through cloud-ready software. Proven ability to deliver AI/ML-powered solutions with clean, maintainable code tailored to business and operational needs.

Experience

Software Developer

January 2025 - Now

Prolite Automation, India, Chennai

- Designed and implemented an **ASRS storage and process automation system** using Python, FastAPI, and PostgreSQL to streamline warehouse control, optimize cell-based storage operations, and enable real-time PLC integration for automated inventory handling.
- Built a Batch reporting and recipe download** system to monitor production control and material traceability, integrating PLC communication, data processing with Pandas, and automated recipe dispatch to shop floor systems—improving accuracy and traceability in manufacturing.
- Redesigned the **SKEW energy monitoring** system using FastAPI (backend), React.js (frontend), and MSSQL to collect and analyze industrial energy data; applied ML models to optimize load balancing, reduce electricity consumption, and accelerate production cycles.
- Worked with **Git**, **Docker**, and **CI/CD pipelines** to version, containerize, and deploy applications efficiently across development and production environments.

Jr Software Programmer

April 2024 - December 2024

Prolite Automation, India, Chennai

- Developed **SKEW**, a historian and energy monitoring system for real-time industrial data collection and visualization from PLCs and IoT devices. Built with FastAPI (backend), React.js (frontend), and MSSQL, it enabled process optimization by analyzing energy usage, production rates, and downtime trends. Integrated ML models to support predictive analytics, improve operational efficiency, and reduce power consumption.
- Engineered **Code-X**, a Flask-based automation support tool that helps engineers rapidly generate PLC function blocks and text lists from structured input. Connected with MSSQL for persistent configuration management, it accelerates industrial project deployment by reducing manual engineering effort and standardizing logic generation for automation teams.

Software Programmer Intern

January 2024 - March 2024

Prolite Automation, India, Chennai

- Trained in Python and its frameworks including FastAPI, Flask, Pandas, and PyQt for developing both web-based and desktop automation tools.
- Skilled in backend development and REST API design, with hands-on experience integrating PostgreSQL/MSSQL, PLCs, and IoT devices into real-time industrial systems.
- Developed scalable software solutions such as an automated email system using SMTP, scheduling libraries, and Pandas to dispatch batch reports and alerts—enhancing real-time communication and operational visibility.

Skills

Python Frameworks & Libraries

Experienced

OOPs

Experienced

Flask | Pandas

| Matplotlib

Experienced

SQL-MS | My, postgresql, RDBMS

Experienced

Grafana Skillful

APIs | Fast | Rest

Experienced

Github

Experienced

AI/ML, AWS-LightSail, S3, EC2

Skillful

Languages

English

Tamil

Awards

Applied Data Science

Python programming

Django, Flask web development

Power BI

Java Basics

Education

2019 – 2023

B.E - Computer Science and Engineering, Einstein College Of Engineering, India, Tirunelveli Graduated with 75%

2018 - 2019

HSC - Higher Secondary, Vel's Public School CBSE, India, Sankarankovil

Completed Higher Secondary Certificate (HSC) with 60% marks

2016 - 2017

SSLC - Secondary School, Sri Parasakthi Vidyalaya CBSE School, India, Coutrallam Completed

SSLC with 80% marks

Internships

An internship and project on Data science Methodology

Aug 2022 - Mar 2023

IBM CAREERS AND INTERNSHIP, India, Chennai

Completed an IBM internship, where I learned Machine Learning and developed a Web Phishing Detection project.

PYTHON domain

Oct 2021 – Jan 2022

Shiash Info Solutions Private Limited, India, Chennai

Completed an internship, gaining expertise in Python, its frameworks, and web development technologies including HTML and CSS, from basics to advanced concepts.

Projects

2022 - 2023

Crop yield prediction and crop disease detection to recommend fertilizer.

(for TNSCE)

This project is selected for the Tamil Nadu State Council project proposal. By using MLDS with Python programming language

2021 - 2022

Web phishing attacks detection and prevention using machine learning.

Web phishing attacks detection and prevention using ML and DS with Python programming language

2021 - 2022

Face Recognition-Based Attendance Management System using Machine Learning.

Face recognition and attendance management system using ML and Python programming language

2021 - 2022

Heart Disease Prediction.

Heart disease analysis and prediction using machine learning. Using a Machine learning algorithm with R programming.