

# Sreelakshmi Suresh

Kannur, Kerala – 670504

sreelakshmiragini@gmail.com | +91 7902589889

<http://www.linkedin.com/in/sreelakshmi-suresh>

## Profile Summary

- ★ Over 3 years of experience as a **Backend Developer** with in-depth knowledge in **Python, Golang, and Computer Networking**
- ★ Working Experience and Extensive knowledge in **Django and Django REST Framework**
- ★ Hands-on experience in **Computer Networking** using tools like iptables, IP rules, routes, and TC for managing network traffic and controlling bandwidth

## Technical Skills

Programming Languages	Python, Golang
Frameworks	Django, Django REST Framework
Networking Tools	Traffic Control(TC), iptables, IP Rules, IP Routes, tcpdump, iperf
Machine Learning	Supervised & Unsupervised Learning, Neural Networks, Model Evaluation
RDBMS	PostgreSQL
IDE/Tools	VSCode, Git, Jupiter Notebook
Operating System	Linux

## Professional Experience

**QBurst Technologies Pvt Limited**

**Sep 2021 – Present**

**Backend Developer**

- ★ Backend Developer with experience in web application development and computer networking.
- ★ Developed APIs and Functionalities for web applications using Python, Django, PostgreSQL, and GIT
- ★ Developed an application using Golang that manages network traffic and controls bandwidth using tools like iptables, IP rules, IP route, and TC.
- ★ Experienced in conducting peer reviews for code developed by fellow developers, providing feedback at both the functional and code level.

## Education

**APJ Abdul Kalam Technological University**

**Aug 2017 – June 2021**

Bachelor of Technology in **Electronics and Communication Engineering** with **CGPA 9.0**

## Projects

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### Network Traffic Management Tool

A comprehensive tool for managing network traffic and controlling the bandwidth of applications based on fingerprinting parameters such as source and destination IPs, ports, MAC addresses, etc.

#### Roles and Responsibilities

- ★ Gained expertise in network traffic management and bandwidth control.
- ★ Developed a file watcher using Go's filesystem notification library (**fsnotify**) to track file creation, modification, and deletion events.
- ★ Implemented scheduled tasks using the **cron** package in Go to execute functions at predefined intervals.
- ★ Hands-on experience with network traffic management tools such as **iptables**, **ip rules**, **ip route**, and **tc** for traffic shaping and bandwidth control.
- ★ Implemented the network traffic management tools using **Netlink**.
- ★ Engineered throughput control mechanisms leveraging fingerprinting parameters, including source IP, MAC address, and destination IP.
- ★ Implemented monitoring of network interface changes using **IP link monitoring** and **GoRoutine**.
- ★ Designed and implemented comprehensive unit tests to ensure code robustness and reliability.
- ★ Optimized and refactored code to improve efficiency, maintainability, and performance.
- ★ Diagnosed and resolved software bugs across multiple system components.

### Testcase Management Tool

A comprehensive tool that is useful for end-to-end test case management, including web and desktop applications with extensive support for automated testing.

#### Roles and Responsibilities-

- ★ Developed multiple efficient RESTful APIs using **Django REST Framework**.
- ★ Designed and implemented **PostgreSQL** database schemas for Test Cases, Test Scenarios, Scenario Versions, and Scenario Execution to ensure data integrity and efficient querying.
- ★ Developed key features including Test Scenario management, Scenario Versioning, and Docker-based Automated Script Execution to enhance testing capabilities.
- ★ Managed storage of execution trace files in an **AWS S3** bucket.
- ★ Integrated **GIT** into our system to track the Gitlab tickets and test cases.
- ★ Developed a cron job to sync Gitlab to our system hourly.
- ★ Utilized **Celery** for asynchronous handling of the import operation of Excel sheets, optimizing performance and scalability.
- ★ Created and executed comprehensive unit tests using **pytest** to validate API functionality and code robustness.
- ★ Worked with the team to analyze the requirements, plan, and estimate various features.
- ★ Performed ongoing code optimization and refactoring to improve performance and maintainability, addressing and resolving bugs as they arose.
- ★ Conducted peer reviews for code developed by fellow developers, providing feedback at both the functional and code level.
- ★ Participated in sprint planning, retrospection, and daily standups.

### Online Real Estate Platform

An innovative platform facilitating remote real estate auctions with live streaming and comprehensive integration for agents and buyers.

#### Roles and Responsibilities-

- ★ Developed and maintained RESTful APIs using Django REST Framework to support auctions, private sales, and authorities.
- ★ Designed and implemented dynamic email templates using Django's template rendering engine.
- ★ Configured **RabbitMQ** and **Supervisor** for managing asynchronous task queues and background process monitoring.

- ★ Integrated Facebook Live streaming functionality, enabling real-time auction broadcasts directly from the agency's Facebook page.
- ★ Managed the continuous upkeep of **DocuSign** eSignature integration, ensuring a seamless and secure workflow for document signing.
- ★ Provided support for application testing across various environments (QA, UAT, Production) and addressed issues during weekend auctions.
- ★ Managed the seamless delivery and deployment of code to production, ensuring a smooth and reliable transition for efficient software releases.
- ★ Engaged with clients to review and discuss software requirements and incorporated feedback from Trello tickets into development.

## Certifications

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- ★ Machine Learning Specialization by Andrew Ng on Coursera
- ★ Python Django - The Practical Guide, Udemy
- ★ Crash Course on Python by Google, Coursera
- ★ Learn Go for Beginners Crash Course (Golang), Udemy