

HARI RAGAVENDIRAN R

PYTHON DEVELOPER

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Professional Summary

Python Developer with practical experience in backend development, RESTful API design, and automation using Python and Flask. Proven ability to build scalable APIs, integrate SQL and NoSQL databases, and handle authentication, validation, and error handling. Strong understanding of application logic and real-world debugging gained through hands-on projects and internships. Final-semester engineering graduate, immediate joiner.

Technical Skills

Programming:

- Python, Bash

Backend & API Development:

- Flask Framework, REST API Design and Development
- Authentication and Authorization Logic, Input Validation and Error Handling

Databases:

- MongoDB, SQLite, MySQL, CRUD Operations and Query Handling

Testing & Debugging:

- API Testing using Postman
- Request and Response Debugging, Business Logic and Edge-case Validation

Automation & CI/CD:

- Python Automation Scripts
- GitHub, Docker
- GitHub Actions, Jenkins

Systems & Cloud:

- Linux (Ubuntu, Parrot OS), Windows
- AWS (EC2, S3)

Professional Experience:

1. Project Development Intern - ProcessDrive, Hosur | June 2025 – July 2025

- Developed Python automation scripts to classify and organize files based on file type.
- Built a Flask-based To-Do web application with SQLite for persistent data storage.
- Implemented CRUD functionality and optimized task status management logic.
- Debugged backend logic and improved script efficiency.

2. Junior Python Intern - ProcessDrive, Hosur | July 2024

- Designed and tested REST APIs using Python and Flask.
- Integrated MongoDB for backend data storage and retrieval.
- Performed API testing using Postman and documented endpoints using Swagger.
- Assisted in deploying backend services to a live environment.

Education:

B.E – Electronics and Communication Engineering | Final Year (8th semester)

Adhiyamaan College of Engineering (Autonomous) – Hosur, Tamil Nadu – 635109

Batch – 2022 – 2026 | Available for Full-Time Role (**Immediate Joiner**) - Ready to Relocate

Projects:

1. Flask To-Do Web Application

Tech: Python, Flask, SQLite, HTML

- Built a full-stack task management application with persistent database storage.
- Implemented complete CRUD functionality with task status tracking and sorting.
- Designed clean and modular backend routes following REST principles.

2. File Organizer Automation Tool

Tech: Python, OS, Shutil, Pathlib

- Developed a Python automation script to automatically organize files by type.
- Reduced manual effort by automating directory scanning and file movement.
- Implemented exception handling to ensure safe execution across directories.

3. Real-Time Vehicle Tracking Application

Tech: Python, Flask, MongoDB, WebSockets

- Built a real-time vehicle tracking system using Flask and MongoDB.
- Implemented backend APIs to receive and broadcast live location updates.
- Used WebSockets to enable low-latency real-time communication.

4. CI/CD Pipeline with AWS Deployment

Tech: Python, GitHub Actions, AWS EC2

- Implemented CI/CD pipelines to automate build and deployment of Python applications.
- Deployed backend services to AWS EC2 with automated workflows.
- Improved deployment consistency and reduced manual release effort.

5. VulnFlaskApp – Secure Flask Backend Application

Tech: Python, Flask, SQLite

- Designed and developed a Flask-based backend application to understand real-world request handling and routing.
- Implemented authentication and access control logic to manage user actions securely.
- Improved backend reliability through input validation and structured error handling.

6. Password Audit Automation Tool

Tech: Python, Hashcat

- Developed a Python-based automation tool to analyze password strength.
- Integrated Hashcat for dictionary-based analysis and report generation.
- Produced structured outputs to identify weak credentials efficiently.

7. REST API Development with MongoDB

Tech: Python, Flask, MongoDB, Postman

- Designed and implemented RESTful APIs for data-driven applications.
- Integrated MongoDB for structured data storage and retrieval.
- Tested and validated API responses using Postman.

Additional Information:

- Strong interest in backend development, API design, and Python automation. Familiar with secure coding practices and backend debugging techniques.
- Comfortable working in Linux-based development environments.
- Working knowledge of web application security principles applied to backend logic, input validation, and API design.