HARINI

PYTHON DEVELOPER

Coimbatore | 9787682014 | harinimarimuthu03@gmail.com
Harini_LinkedIn | Harini_Portfolio

CAREER SUMMARY:

Solution-oriented Python Developer with strong experience in backend development, data automation pipelines, AI-integrated applications, and full-stack systems. Skilled in Flask, FastAPI, SQL, React.js, AI/ML models, OpenCV, YOLOv3, and MIRNet. Adept at building scalable, secure, and high-performance solutions with practical exposure to cybersecurity fundamentals, including intrusion detection, firewall configuration, and DDoS mitigation. Known for analytical problem-solving, clean coding practices, and efficient workflow optimization.

WORK EXPERIENCE:

PYTHON DEVELOPER TRAINEE – CYGNUS SOFTWARES, VADAVALLI
Sep, 2025 – Present

PROJECT: CANDOR DATA PLATFORM   Oct, 2025 – Present

- Developed Python-based automated ETL workflows to extract, transform, and load data from multiple databases into the target data warehouse with high accuracy.
- Integrated AWS Bedrock and Claude to build metadata-driven, AI-assisted "vibe coding" pipelines that minimized manual scripting and accelerated data integration.
- Built an interactive interface using React, JavaScript, and TypeScript and implemented automated schema mapping and validation to ensure consistent, error-free data migration.

PROJECT: SALES INQUIRY AUTOMATION SYSTEM   Sep, 2025 – Oct, 2025

- Developed a real-time inquiry processing system for hotels and travel agencies to manage large volumes of emails.
- Built automated email scanning with scheduling, escalation, and smart AI-based classification.
- Implemented AI-driven auto-responses and a full-stack React + FastAPI solution with an optimized SQLite backend.

EDUCATION:

Bachelor of Computer Science and Engineering
2021 – 2025 | RVS College of Engineering and Technology
CGPA – 7.96

TECHNICAL SKILLS

- **Programming Languages :** Python, C
- **Web Development :** HTML, CSS, JavaScript
- **Frameworks :** Flask, React.js
- **Database Systems :** MySQL, SQL, SQLite
- **Development Environment :** Visual Studio Code
- **Technical Libraries :** NumPy, Pandas, Scikit-learn, OpenCV, YOLOv3
- **Domain Expertise :** Cybersecurity, OOP, Data Structures (C), REST APIs
- **Tools & Platforms :** Kali linux, Pentmenu, Wordfence, Wordpress (Basic)

INTERNSHIP:

Cybersecurity Intern (In Web Security)
- Configured and maintained firewall rules, intrusion-detection systems, and security plugins.
- Implemented Wordfence on WordPress sites to strengthen DDoS protection and improve website integrity.

CERTIFICATIONS:

- Certified Python Full Stack Developer
- NPTEL certification in "Database Management Systems"
- NPTEL certification in "Problem Solving Through Programming in C"
- Certified Internship in Cybersecurity

PROJECTS

CANDOR DATA PLATFORM

Tech Stack: Python, React, JavaScript, TypeScript, AWS Bedrock, Claude
- Automated the end-to-end data-warehouse lifecycle by ingesting, transforming, modeling, and deploying data from heterogeneous sources using an AI-assisted "vibe coding" environment, significantly reducing manual scripting and accelerating delivery.

SALES INQUIRY Automation System

Tech Stack: Python, FastAPI, React.js, SQLite, AI/ML Models, Task Scheduling, Batch Processing
- Managed the inquiry processing workflow by scanning, classifying, and routing large volumes of emails for hotels and travel agencies. Built scheduled email processing with escalation flows and AI-driven classification to reduce manual effort. Developed a React + FastAPI solution with an optimized SQLite backend to enable real-time AI-generated responses.

Leveraging Object Detection for Enhanced Security in Theatre Seating Arrangements under Low-Light Conditions

Tech Stack: Python, YOLOv3, MIRNet, OpenCV, Deep Learning
- Developed a low-light image enhancement and object-detection system for analyzing theatre seating arrangements. Enhanced dark frames using MIRNet and applied YOLOv3 for accurate, real-time detection under challenging lighting.

Mitigating Distributed Denial of Service (DDoS) Attacks for Web Security

Tech Stack: Kali linux, Wordpress, Python, Pentmenu, Wordfence Plugin
- Collaborated with the security team to optimize firewall configurations, tune intrusion detection systems, and deploy protection plugins. Implemented Wordfence for enhanced DDoS protection and threat visibility across WordPress environments.

BEHAVIORAL SKILLS:

- Problem Solving
- Analytical Thinking
- Communication
- Teamwork & Collaboration
- Time Management
- Adaptability
- Quick Learning Ability