

MOHAMMED ARIF T

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✓ Professional Summary

Python Developer with one year of experience in building and deploying scalable web applications and REST APIs using Django and Flask. Proficient in leveraging AWS (EC2, Lightsail) for secure hosting, configuring SSL certificates, and implementing real-time communication protocols like MQTT for integrated solutions.

🏢 Work Experience

Software Engineer at Cabal Technologies LLP

01/2024 – present | Ernakulam, India

- Developed Django-based web applications and REST APIs for various projects.
- Implemented embedded system integrations with API interactions.
- Deployed and hosted web applications using AWS Lightsail and EC2.
- Configured SSL certificates to ensure secure connections for hosted applications.
- Enabled fast, lightweight, real-time communication between devices using MQTT (Mosquitto broker).
- Developed **responsive UI components** using React.js and **Tailwind CSS** for consistent design across devices.

Android framework at Bluegen IT Solution

08/2020 – 01/2021 | Calicut

PYTHON INTERNSHIP TRAINEE - Full Stack developer at INMAKES INFOTECH

07/2023 – 12/2023 | Kochi

- Developed Python/Django applications.

🎓 Education

Master Of Computer Application at APJ Abdul Kalam Technological University, MES College Of Engineering

Kuttippuram

2023 | Malappuram

CGPA: 7.4

Bachelor Of Computer Application at Calicut University, Grace valley arts and science college

2021 | Malappuram

CGPA: 6.1

<> Projects

FuelTM

05/2025 – present

- Delivered an integrated hardware and software solution (Python & Android) for real-time generator monitoring and control.
- Tracks fuel levels, live generator data, calculates fuel consumption and cost, and generates usage reports.
- Provides generator ON/OFF control, manual/auto mode switching, and emergency shutdown.
- Enables communication via MQTT using a Mosquitto broker.

GP365, Automatic Changeover with Current Limiter system

- Manages power supply switching and current limitation to ensure safe operations.
- Implemented REST framework for the application.

Secure University Exam Evaluation Using Cryptography And Cloud Computing

02/2023 – 05/2023

- Implemented AES encryption, SHA hashing, and AWS S3-based exam evaluation.
- Designed and deployed a **fully digitalized university exam evaluation system**.
- Developed workflow where staff can **upload all student answer papers to AWS S3** in encrypted format.
- Built features for **bulk student allocation** to staff for streamlined exam evaluation.
- Enabled students to **view results instantly** on their dashboard after evaluation.
- Integrated **reevaluation request flow** where students can request re-checking, and admin approval triggers staff reassignment.
- Ensured **secure, scalable, and role-based access control** for staff, students, and administrators.

E-sight For The Blind

2020 – 2021

- Developed **E-Sight**, a wearable embedded system (smart glasses) integrated with a **camera, ultrasonic sensor, and speaker** to assist blind and partially blind users.
- Implemented **real-time image annotation**: each camera frame is analyzed to detect surrounding objects (e.g., monitor, fan), and the system provides **audio feedback** via speaker.
- Integrated **ultrasonic sensor-based obstacle detection** to alert users about walls, steps, and potholes for safe navigation.
 - Delivered a **hands-free, real-time assistance solution** combining **computer vision, embedded systems, and IoT** for enhanced mobility and independence.
- Built a **mobile application interface** for additional accessibility features and system control.

Product Registration & Warranty Management System

August 2025 – September 2025

- Developed a **full-stack application** for product registration and warranty tracking.
- **Backend (Python REST API)**:
 - Implemented **secure token-based authentication** for user access and role management.
 - Built REST endpoints to handle **product registration, warranty validation, and user management**.
- **Frontend (React + Tailwind CSS)**:
 - Designed a **responsive, modern UI** for product registration and warranty lookup.
 - Integrated API calls for **real-time product and warranty status updates**.
 - Used Tailwind utility classes for **fast, scalable styling**.
- Delivered a **seamless product lifecycle management solution**, enabling users to register products, track warranty, and request support through a secure and intuitive interface.

☆ Skills

Programming: Python(Django, Flask, Rest Api), Java, Android

Web Technologies: HTML, CSS, JavaScript, Ajax, React

Software Development Methodology: Agile Methodology

Database: MySQL, MongoDB

Version Control: Git

Web Hosting: AWS EC2, Lightsail and configure SSL certificate

IoT & Communication Protocols: MQTT (Mosquitto)

🔄 Certifications

Data Base Management System at Indian Institute Of Technology Kharagpur

NPTEL (online course)

Introduction To Operating System at Indian Institute Of Technology Madras

NPTEL (online course)