

# Vinayagam

Python Developer

✉ [vinayagam.python@gmail.com](mailto:vinayagam.python@gmail.com) — ☎ +91-9025533402 — 🌐 <https://vinay-engineer.me/>

📄 [vinayagam-software/](https://www.linkedin.com/in/vinayagam-software/) — 🏠 [github.com/vinaythaagam](https://github.com/vinaythaagam)

## Skills

### Languages

Python, JavaScript

### Frontend / Web

HTML5, CSS3

Bootstrap

### Backend Frameworks

Django, Flask

Django REST

### Databases

MySQL, PostgreSQL

Redis

### Cloud & DevOps

AWS EC2, S3, IAM

Route 53, SES, SNS

cPanel

### APIs

REST APIs, OpenAI API

WhatsApp Business API

Gemini API, Graph API

### Real-time

Django Channels

WebSockets

### Tools

Git, GitHub, Linux

Slack, AJAX

### Methods

OOP, Agile

Test-Driven Dev

## Education

### MCA

Madras University

Aug 2024 - Present

### B.Sc Computer Science

Govt. Arts College

Jun 2017 - May 2020

## Certifications

### PHP Development

CADD Center

## Learning

Adv. Data Structures

AWS Adv. Services

Kubernetes, CI/CD

## Professional Summary

Results-driven Python Developer with 2 years of experience specializing in Django. Proven expertise in building scalable web applications. Skilled in designing efficient back-end architectures and deploying on cloud platforms. Experience delivering solutions across government, non-profit, and commercial sectors.

## Experience

### Thaagam Foundation

*Python Django Developer*

- Built 8+ Django applications including donor CRM, HR management, and field operations systems.
- Implemented automated communication (AWS SES, SNS, WhatsApp API), reducing manual workload by 60%.
- Developed reusable Django views and optimized database queries, improving report generation speed by 200%.
- Integrated Gemini API for donation validation, preventing abuse through name verification and image detection.

## Key Projects

### AI-Powered Civic Services Platform

- Developed AI-driven image analysis system for Greater Chennai Corporation complaint management using Django.
- Implemented automated complaint categorization using OpenAI API on AWS. **URL:** [imageanalysis.gccservices.in](https://imageanalysis.gccservices.in)

### Enterprise WhatsApp Platform

- Architected end-to-end WhatsApp automation platform from concept to production deployment.
- Built real-time chat dashboards using Django Channels, WebSockets, Redis. **URL:** [wasync.m7corporation.com](https://wasync.m7corporation.com)

### Thaagam Donation Management

- Built platform serving 200K+ followers with multi-dashboard architecture using Django and PostgreSQL.
- Integrated Gemini AI for validation and implemented WhatsApp/Email/SMS OTP verification system.
- Created real-time tracking with automated receipt generation. **URL:** [thaagam.org](https://thaagam.org)

### Multi-Platform Payment Solutions

- QuickPay: Dynamic payment-link generation with. automated WhatsApp integration for temple donations.
- ACustomSong: E-commerce platform for personalized songs with real-time client interaction.
- TuluWorld: Event-specific donation management with automated receipt delivery systems.

## Key Achievements

- Delivered 8+ production-ready Django apps across government, non-profit, and commercial sectors.
- Achieved 60% reduction in manual processes and 200% improvement in system performance.
- Prevented donation fraud by implementing AI-powered validation systems using Gemini API.