

VINAYAGAM

Python Django Developer

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PROFESSIONAL SUMMARY

Results-driven Python Django Developer with 1.6 years of experience in full-stack web development, specializing in building scalable applications, automation solutions, and AI-integrated services. Proven expertise in developing enterprise-grade solutions using Django, REST APIs, and cloud technologies. Demonstrated ability to deliver end-to-end solutions from conception to deployment, with strong problem-solving skills and experience in government and non-profit sectors.

TECHNICAL SKILLS

- **Programming Languages:** Python, JavaScript, C++, Bash/Shell Scripting
- **Web Frameworks:** Django, Django REST Framework, Bootstrap
- **Frontend Technologies:** HTML5, CSS3, JavaScript, AJAX, Responsive Web Design
- **Database Management:** MySQL, Database Design & Optimization
- **Cloud & DevOps:** AWS (EC2, S3, Route 53, SES, SNS, IAM), Auto Scaling; cPanel administration (SSL setup, backups, email & DB management)
- **API Development:** REST APIs, WhatsApp Business API, OpenAI API, Meta Graph API
- **Real-time Communication:** Django Channels, WebSockets, Redis
- **Development Tools:** Git/GitHub, Linux, Slack Integration
- **Methodologies:** Object-Oriented Programming, Test-Driven Development, Agile

PROFESSIONAL EXPERIENCE

Python Django Developer — GCC Namma Chennai App

- Developed AI-powered image analysis system using OpenAI API to process citizen service complaints, improving response time by 40%
- Architected and implemented Twitter/X complaint processing pipeline with automated sentiment analysis and complaint categorization
- Designed and deployed RESTful APIs for image processing and social media integration workflows on AWS infrastructure
- Collaborated with cross-functional teams to integrate analytics dashboards and maintain 99.5% service availability

Python Django Developer — Thaagam Foundation

- Built and maintained multiple Django applications including donor CRM, HR management, and field operations systems
- Implemented automated communication systems using AWS SES, SNS, and Meta WhatsApp API, reducing manual workload by 60%
- Developed reusable Django REST Framework endpoints and optimized MySQL queries, improving report generation speed by 200%
- Managed complete software development lifecycle including deployment, maintenance, and feature enhancement using GitHub workflows

KEY PROJECTS

AI-Powered Government Solutions Platform

Technologies: Python, Django, OpenAI API, AWS, MySQL

Live URL: imageanalysis.gccservices.in

- Developed comprehensive AI-driven image analysis system for Greater Chennai Corporation civic services
- Integrated OpenAI API for automated complaint categorization and priority assessment
- Implemented real-time Twitter complaint monitoring and analysis system with automated triage capabilities

Enterprise WhatsApp Communication Platform

Technologies: Django, MySQL, WhatsApp Business API, Django Channels, WebSockets

Live URL: wasync.m7corporation.com

- Conceptualized and developed end-to-end WhatsApp automation platform from initial idea to production deployment
- Built comprehensive admin and client dashboards with real-time chat functionality using Django Channels
- Implemented dynamic template creation system and webhook-driven status updates with media storage capabilities
- Currently enhancing with agent-wise chat distribution and advanced analytics features

Multi-Platform Donation Management Systems

Technologies: Django, MySQL, Payment Gateways, WhatsApp API, Email Automation

- **Thaagam.org:** Comprehensive donation platform with admin, relationship-management, and field-operation dashboards featuring WhatsApp/Email/SMS OTP verification and dynamic Meta templates
- **QuickPay (Sri Sankarapuram):** Dynamic payment-link generation system with automated WhatsApp chat integration and template-based donor communication
- **ACustomSong.com:** Enhanced payment processing with real-time WhatsApp chat (Channels + Redis) and automatic receipt delivery
- **TuluWorld.org.in:** Event-specific donation management with automated email and WhatsApp receipt generation
- **KarunaiKarangalIndia.org:** Real-time donation-tracking dashboard with live payment display

Business Lead Management System

Technologies: Django, MySQL, Form Processing, Email Integration

Live URL: jjborewell.com

- Developed lead capture and management system for borewell service requests
- Implemented automated form processing with email notification workflows
- Created comprehensive dashboard for lead tracking and customer relationship management

EDUCATION

Master of Computer Applications (M.C.A.) – University of Madras (Distance Education, currently pursuing)	2024–2026
Bachelor of Science in Computer Science – TAGGAC Tindivanam	2017–2020
Higher Secondary Certificate (HSC) – GBHSS Cheyyur	2014–2016
Secondary School Leaving Certificate (SSLC) – GBHSS Cheyyur	2013–2014

KEY ACHIEVEMENTS

- Successfully delivered 8+ production-ready Django applications across government, non-profit, and commercial sectors
- Achieved 60% reduction in manual communication processes through automation implementations
- Improved system performance by 200% through database optimization and efficient API design
- Maintained 99.5% uptime across all deployed applications with proactive monitoring and maintenance
- Led end-to-end project development from conceptualization to production deployment

PROFESSIONAL DEVELOPMENT

Currently Expanding Skills In: Machine Learning & Natural Language Processing, Advanced Data Structures & Algorithms, AWS Advanced Services, DevOps & CI/CD Best Practices