

# Akhilesh M T

Bangalore, India

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## Summary

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Backend Engineer with 2+ years of experience building event-driven, automation-heavy backend systems using **Python, Django/FastAPI, PostgreSQL, Redis, Celery, and AWS**. Proven track record delivering scalable WhatsApp CRM workflows, real-time notification systems, and large-file medical imaging pipelines. Strong focus on backend reliability, async processing, performance optimization, and production deployment.

## Technical Skills

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- **Languages:** Python (primary), JavaScript, Go (working knowledge)
- **Backend Frameworks:** Django, FastAPI, Express.js
- **Databases:** PostgreSQL, SQLite
- **Caching & Queues:** Redis, Celery, RabbitMQ
- **Infrastructure:** AWS (EC2, RDS), Docker, Linux, Nginx, systemd
- **Real-Time Systems:** Socket.IO, Webhooks, Event-driven workflows
- **Integrations:** WhatsApp Business API, Power Automate, External Messaging APIs

## Professional Experience

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### Backend Engineer — Tranket

Ontario, Canada (Remote)

*Jul 2025 – Present*

- Built an event-driven **WhatsApp automation workflow engine** enabling scalable customer interaction flows.
- Developed backend services with **Django + PostgreSQL + AWS (EC2/RDS)**, improving API reliability and database efficiency.
- Integrated WhatsApp Business API to support campaign automation, message triggers, and CRM-based workflows.
- Designed a secure **external messaging gateway API** enabling third-party tools (Power Automate) to trigger WhatsApp messages.
- Implemented background workers for OTP generation, stale bot cleanup, and event-driven notifications using **Celery + Redis**.
- Improved query performance through indexing, model refactoring, and optimized database access patterns.

### Backend Engineer — Trigeminal AI

Bengaluru, India

*Jan 2024 – Jul 2025*

- Built backend pipelines for large-scale medical imaging systems handling **100+ daily uploads of 700MB+ DICOM files**.

- Integrated Redis-based caching and notification workflows, reducing server load by **30%**.
- Automated ingestion pipelines using **Celery + Watchdog**, cutting manual operations by **50%**.
- Integrated OHIF and OpenSeaDragon viewers to support seamless medical visualization workflows.
- Developed real-time update infrastructure using **Socket.IO** to improve responsiveness and reliability.

## Projects

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- **FastAPI Hosting Utility:** Built a CLI tool to deploy FastAPI applications with **systemd, Nginx, SSL**, enabling production-ready hosting.
- **External Messaging API Gateway:** Secure API platform for triggering WhatsApp workflows via third-party integrations.
- **Automated Image Upload Pipeline:** Event-driven ingestion system for large imaging datasets using Celery workers.

## Education

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**B.Tech — Electronics and Communication Engineering**

APJ Abdul Kalam Technological University

CGPA: 7.56

Jul 2023