

# ALAN REMANAN

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## SUMMARY

Backend & Generative AI Engineer with 2+ years of experience building scalable APIs, asynchronous systems, and agent-based AI workflows. Skilled in FastAPI, distributed systems (Celery + Redis), and LLM orchestration using LangGraph and CrewAI. Proven ability to design production-grade AI platforms with real-time processing and multi-user collaboration features.

## TECHNICAL SKILLS

Languages: Python, JavaScript, C, Dart

Frameworks: FastAPI, Django, Django REST Framework, Flask

Databases: PostgreSQL, MySQL, MongoDB, Azure SQL

AI/LLM: LangChain, LangGraph, CrewAI, LLM Fine-tuning, GPT, Llama, Mistral

Tools & DevOps: Docker, Git, GitHub Actions (CI/CD)

Async & Auth: Celery, Redis, JWT, Firebase, Azure AD

Frontend (Basic): Angular, Flutter

Real-time Systems: WebSocket

## EXPERIENCE

### Reelwise Entertainment Pvt. Ltd. — Associate Software Developer

March 2025 – Present

- Designed and developed scalable backend APIs using FastAPI for a production AI platform.
- Built and integrated agentic AI workflows using LangGraph and LLM-based systems.
- Implemented Firebase Authentication for secure multi-user collaboration.
- Built real-time collaborative editing features using WebSockets with event-driven architecture, supporting concurrent multi-user interactions. Implemented CRDT-inspired data synchronization mechanisms to resolve conflicts and maintain eventual consistency across distributed clients.
- Designed and executed database migrations for production systems with active users, ensuring backward compatibility and minimizing downtime.
- Contributed to system architecture and core modules from early product stages.
- Assisted in Flutter-based frontend features for notifications and UI fixes.
- Worked in Agile Scrum environment with sprint-based delivery.

## **Reelwise Entertainment Pvt. Ltd. — Generative AI Engineer Intern**

March 2024 – February 2025

- Developed REST APIs using FastAPI and Flask for AI-driven applications.
- Implemented secure authentication using JWT and Azure AD.
- Built multi-agent AI workflows using LangGraph, integrating GPT, Llama, and Mistral models.
- Managed asynchronous task processing using Celery and Redis.
- Integrated Azure Blob Storage and Azure Communication Services.

## **PROJECTS**

### **Real-Time Crime Detection and Alerting System**

- Built a real-time weapon detection system using YOLOv8 trained on custom datasets.
- Implemented automated alerting using SMTP for immediate notifications.
- Designed backend using Flask for real-time processing.

### **Social Media Web Application**

- Developed a full-stack Django application with authentication and social features.
- Implemented core functionalities including posting, user interaction, and data persistence.

### **AI Health Advisor Web App**

- Built a Flask-based AI health assistant using GPT-3.5 Turbo.
- Fine-tuned model using Kaggle dataset to improve response relevance.

## **EDUCATION**

A P J Abdul Kalam Technological University — B.Tech in Computer Science and Engineering

July 2020 – July 2024 | Kerala, India