

ANUJA KHATRI

Full Stack Developer | React • Django • Node.js • FastAPI • PostgreSQL • REST APIs

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PROFESSIONAL SUMMARY

Full Stack Developer with hands-on experience building production-grade REST APIs, role-based access control systems, and data processing pipelines using Python, Django REST Framework, and FastAPI. Proven ability to design multi-role authentication architectures with JWT, implement PostgreSQL-backed data models with performance optimisation, and ship containerised applications via Docker and GitHub Actions CI/CD. Experienced in applying machine learning to backend systems, including training classification models (XGBoost/Random Forest) and integrating LLM APIs for AI-powered features.

CORE COMPETENCIES

Django & Django REST Framework • FastAPI & Pydantic • PostgreSQL & SQL Optimization

JWT Authentication • Role-Based Access Control (RBAC) • REST API Design & Versioning

Docker & Containerization • GitHub Actions CI/CD • Celery Async Task Queues

Audit Logging & Data Integrity • Multi-Tenant Architecture

Python OOP & Data Structures • Pytest & Unit Testing • ML and LLM API Integration

TECHNICAL SKILLS

Backend	Python, Django, Django REST Framework, FastAPI, Flask, Node.js, Express.js
Databases	PostgreSQL, SQL (query optimization, indexing, schema design), MongoDB
Auth & Security	JWT, Session Auth, Role-Based Access Control (RBAC), HTTPS
AI & ML	LLM API Integration (OpenAI, GroqCloud), XGBoost/Random Forest, Pydantic data modelling
DevOps	Docker, Docker Compose, GitHub Actions CI/CD, Git, Postman
Frontend	React, JavaScript (ES6+), HTML/CSS, Tailwind CSS, Bootstrap

WORK EXPERIENCE

Full Stack Developer | [Code Rush](#) Feb 2026 – Present

- Engineered full-stack features for Bugchetana, a clinic API, using React (frontend) and Django/Node.js (backend), contributing to a public-sector digital transformation initiative.
- Designed and implemented scalable REST APIs with Django REST Framework, incorporating input validation, error handling, and structured JSON serialisation.
- Optimised PostgreSQL database queries using select_related and indexed lookups, reducing average response time on bug endpoints.

- Maintained collaborative Git workflows, including feature branching, pull request reviews, and merge conflict resolution across a cross-functional team.

Web Development Intern | [Nobel Learning PBC](#) Jul 2025 – Nov 2025

- Designed and delivered a full chocolate factory management website using HTML, CSS, Bootstrap, and WordPress; implemented responsive UI patterns and applied web accessibility standards.
- Troubleshoot live production infrastructure issues and presented a completed project to an international student cohort and subsequently mentored the next batch in web development fundamentals.

Active Contributor — 60-Day Engineering Challenge | [Leapfrog Technology Inc.](#) May 2025 – Jul 2025

- Completed a structured 60-day engineering programme and built fraud detection and house price prediction models using Python and Scikit-learn, deepening ML pipeline and data processing proficiency.

Operations Lead | [Code For Change](#) Jan 2023 – Dec 2024

- Led operational workflows and progress reporting for 50+ team members; organised 3+ large-scale tech events, including Tech Conclave (400+ attendees) and CodeFest (170+ participating teams).

PROJECTS & PUBLICATIONS

BugChetana (AI-Powered Bug Prediction Platform with Roast Mode) — *Django REST Framework • React • PostgreSQL • Docker • JWT/RBAC • XGBoost • Groq API (Llama 3)*

- Built an AI-powered bug tracking platform that predicts bug severity and type before release and monitors real-time release quality using historical data and code metrics, acting as an early-warning system for engineering teams.
- Trained XGBoost/Random Forest models to classify bugs by severity (critical/high/medium/low) and type, and integrated the Groq API (Llama 3) to generate grounded AI fix suggestions plus a sarcastic "Roast Mode" commentary layer built on the ML output.
- Implemented multi-role authentication (Email/Password, GitHub OAuth, Google OAuth via django-allauth) issuing JWTs, with RBAC across Developer, QA, and Release Manager roles enforced via DRF custom permissions.
- Built a React dashboard surfacing release quality score, Go/No-Go indicator, quality trend charts, module risk ranking, and per-bug detail views with predicted severity, fix suggestions, and collapsible roast text.
- Containerised the stack with Docker and configured GitHub Actions CI/CD; backend built on Django REST Framework with PostgreSQL.
- GitHub: <https://github.com/Anujakhatri/BugChetana> | Prod URL: bug-chetana-ai.vercel.app

Healthcare Claims investigation API — *FastAPI • SQLAlchemy • PostgreSQL • JWT • Docker • Github Actions*

- Built a REST API that ingests, validates, and manages healthcare insurance claims submitted in bulk via CSV, simulating a real-world hospital claims pipeline.
- Implemented Pydantic v2 validation for ICD-10 and CPT code formats and service-date rules, returning structured per-upload summaries (total, valid, invalid, error counts).
- Designed JWT-based authentication (python-jose, bcrypt) with role-based access control distinguishing Admin and Read-Only permissions.
- Built a Strict-compliant audit logging module recording uploader identity, timestamp, and record counts for every ingestion event; containerised with Docker and automated via GitHub Actions CI/CD.
- GitHub: https://github.com/Anujakhatri/ai-integration/tree/main/healthcare_claims_api

LinkedIn Post Generator — *FastAPI • Pydantic • LLM API Integration • Async Python*

- Python FastAPI backend integrated with LLM APIs for automated professional content generation. Streamlines LinkedIn post creation using AI-powered suggestions. Showcases modern API design and LLM integration techniques.
- GitHub: <https://github.com/Anujakhatri/Linkedin-post-generation>

email-sender-automation — *Python • PyPI • Package Development*

- Published Python package to PyPI featuring automated email sending, template support, and scheduled delivery — demonstrating proficiency in packaging standards, API design, and open-source distribution. (PyPI: [email-sender-automation v0.1.0](#))
- GitHub: [Anujakhatri/email-sender-automation](#) | PyPI: [email-sender-automation v0.1.0](#)

custom-rate-limiter — *Node.js • Express.js • API Security • Sliding Window Algorithm*

- Built production-ready Express middleware implementing API rate limiting with a sliding window algorithm and configurable per-client thresholds, protecting backend services from abuse and ensuring fair resource allocation.
- GitHub: <https://github.com/Anujakhatri/custom-rate-limiter>

EDUCATION

B.E. Computer Engineering | [Lumbini Engineering College, Pokhara University](#)

Nov 2019 – Nov 2024

HOBBIES

- Exploring emerging technologies and reading tech blogs.
- Music listening.
- Travelling and experiencing new cultures.
- Talking tech conversations with people.