

ZUBIA NASIR

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EXPERIENCE

M37Labs

April 2025 – June 2026

Full Stack Engineer

- Architected and delivered an **intelligent risk monitoring dashboard for PR industries**, monitoring **150+ brands** owning end-to-end system design, backend development, and AI integration.
- Designed **multi-tenant architecture** with strict tenant isolation, **dynamic RBAC** and policy-driven permissions.
- Built model orchestration layer routing inference requests based on task type. Integrated local models for privacy-sensitive workloads. **Reduced the average inference cost by approximately 30%**
- Developed FastAPI microservice for AI inference workflows and built a voice + chat agent supporting tool calling, **streaming STT/LLM/TTS and realtime voice models**, delivering near-real-time responses and **sub-second interruption handling**.
- Implemented Celery- and Redis-based distributed task queues processing **250+ brand-insight jobs daily**, increasing **background-processing throughput by approximately 60%** and **reducing failed jobs by approximately 30%** through parallel execution, automated retries, timeout handling, and failure recovery.
- Took over backend ownership of a **full-stack Clienteling application for a leading Indian jewellery brand**; developed new FastAPI endpoints, resolved production bugs, and managed deployments on Azure with Jenkins-based CI/CD pipelines.
- Contributed in building an **automated image processing pipeline for a visual configurator for one of India's leading fashion retail groups**, leveraging SAM (Segment Anything Model) and state-of-the-art image generation models.

AGIE AI Technology

August 2024 – December 2024

Backend AI Engineer

- Built and deployed RAG pipelines and agentic workflows using LangChain, LlamaIndex, and open-source LLMs; integrated vector databases and Google Dialogflow for conversational AI features.
- Designed and shipped RESTful APIs; deployed services on AWS EC2 with MongoDB as the primary database.

Indian Institute of Technology, Hyderabad

January 2024 – August 2024

Research Intern

- Worked on an optimization model for a fresh food supply chain management system.
- Used cplex solver in python for optimization and also contributed to academic writing.

Warpvelocity Technology

June 2023 – August 2023

Backend Developer Intern

- Created end-to-end bots in Automation Anywhere following industry best practices.

Let India Breathe

June 2022 – September 2022

Volunteer Web Developer

- Worked on the organization's website using NextJS and Contentful CMS; used RESTful APIs and GraphQL for dynamic rendering.

TECHNICAL SKILLS

Languages: JavaScript, Python, C++, PHP

Frameworks: ReactJS, NextJS, NodeJS, ExpressJS FASTAPI, Django, LangChain, TensorFlow

AI/ML: LLM Fine-tuning, RAG, Agentic Workflows, OpenAI Agents SDK, HuggingFace, Vector Databases, Ollama

Infrastructure & Tools: AWS (EC2, S3, Lambda, RDS, SES), MongoDB, PostgreSQL, Celery, GraphQL, Docker, Jenkins, Vercel

PROJECTS

Darwinius | Python



- Built a Python CLI that mines Git churn and AST-based import coupling to score **technical-debt hotspots** via a $\text{sqrt}(\text{churn} \times \text{instability})$ risk metric, orchestrating a **4-phase SQLite pipeline** with interactive HTML/CSV reporting.
- Extended it to generate a Markdown risk map and auto-wired AGENTS.md pointers so AI coding assistants (Claude Code, Codex) can query per-file risk and coupling before making changes.

Themis: Compliance Agent | NextJs, FastAPI, RAG, Qdrant, Postgres, Redis, Celery, Docker, Litellm



- Built a **multi-tenant compliance SaaS** detecting citation-backed violations across 4 regulatory frameworks, **reducing manual review effort by 80%**.
- Engineered a Qdrant RAG and Celery ingestion pipeline with deterministic risk scoring, **improving detection precision by 35% and achieving 99% task reliability**.

Mealprep Samui | PHP, Javascript, Custom Wordpress theme building, Google Maps API



- Worked as a freelancer to design and develop an online meal ordering platform with custom features such as **Build Your Meal**
- Developed a location-aware checkout system integrating Google Maps APIs to validate delivery zones.

EDUCATION

Jamia Hamdard

2020 – 2024

B.Tech in Computer Science and Engineering

New Delhi

CERTIFICATIONS

- TensorFlow Developer Professional Certificate (DeepLearning.ai)
- Advanced RAG with LangChain and LlamaIndex (ActiveLoop)

ACHIEVEMENTS AND LEADERSHIP

- Technical Lead**, IEEE Jamia Hamdard Student Branch
- Finlaist at Smart India Hackathon 2022**.