

# AHMED RAOOFUDDIN

Target Role: AI Engineer • Full-Stack Developer • Solutions Engineer • Software Engineer (Java Spring Boot/Python/React/Next.js)  
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## SUMMARY

AI & Full-Stack Software Engineer delivering production LLM/RAG systems and Java/Spring microservices at cloud scale and deploying enterprise AI solutions and web applications. Skilled in (GPT-3/4), NLP, CNNs, Transformers and full-stack development using Java/Spring Boot, Python/FastAPI and React/Next.js. Proven record of architecting scalable cloud systems (Docker, Kubernetes, AWS), leading cross-functional teams and delivering products that increase qualified leads by 35%, cut screening time by 80% and achieve 90% automated test coverage. Committed to solving business challenges through technology and driving innovation in Dubai's tech market.  
Stack: LLMOps/MLOps (MLflow, Airflow, SageMaker), Vector DBs (FAISS, Pinecone, Weaviate, Milvus), hybrid/BM25+rerank, evaluations (LangSmith, Langfuse, RAGAS), Java/Spring, Python/FastAPI, Next.js, Kafka, Redis, Docker/K8s, AWS/GCP. BPM-style workflow design: process modeling/BPMN concepts, validated forms, business rules, queues/schedulers, REST/DB integrations, audit trails.

## CORE COMPETENCIES

- **AI & ML:** LLMs (GPT-3.5/4), Generative AI, CNNs, Transformers, NLP, NER, RAG, YOLO, T5, LangChain
- **Data:** PostgreSQL, MySQL, MongoDB, Neo4j, Redis, Elasticsearch, PL/SQL
- **MLOps & Observability:** MLflow, Airflow/Dagster, SageMaker, Model Registry, Feature Store, LangSmith
- **Security & QA:** CSP, HSTS, SRI, RBAC, JUnit, SonarQube, Checkmarx, Snyk, Test Coverage
- **Full-Stack:** Java, Spring Boot, Python, FastAPI, REST/GraphQL, React, Next.js, TypeScript, Angular, Node.js
- **DevOps & Cloud:** Docker, Kubernetes, AWS, GCP, GitHub Actions, Jenkins, RabbitMQ, CI/CD, Linux, Nginx, Cloudflare
- **Tools & Soft Skills:** Figma, UI/UX, Git, RabbitMQ, Firebase, SonarQube, VS Code, Jupyter; Leadership, Team Collaboration, Agile & Scrum, Project

## EDUCATION

**Bachelor of Engineering (B.E.) in Computer Science Engineering – Chaitanya Bharathi Institute of Technology (O.U), Hyderabad, India (May 2023)**

- CGPA 8.52/10; Coursework: Data Structures, Machine Learning, AI, Operating Systems, Database Systems, Web Development
- Academic Project: GAN denoising; benchmarked vs classical filters; F1 at least 0.99 on custom noisy dataset (at least 99% accuracy)

**Central Board of Secondary Education (CBSE), International Indian School, Riyadh, Saudi Arabia (Apr 2019)**

- Aggregate: 91.8/100; Specialized in Mathematics, Physics, Chemistry & Computer Science

## WORK EXPERIENCE

**AI Engineer – OffplanProperties.ai/Zalinos Brokerage LLC, Dubai, UAE | Jan 2025 – Present**

- Shipped production LLM/RAG services (voice + multilingual) for property search; +35% qualified leads, -80% manual screening; p95 < 800 ms.
- Built Java Spring Boot microservices + Python FastAPI workers with Kafka/Redis; sustained 1.5–2.0k req/min during campaigns without errors.
- Implemented LLMOps/MLOps (MLflow, Airflow, SageMaker, LangSmith/Langfuse, RAGAS) with eval harnesses and prompt/version tracking.
- Deployed on AWS/GCP with Docker/K8s, Nginx, Cloudflare; blue/green rollouts and CI/CD (GitHub Actions) reduced change failure by 40%.
- Engineered NLP workflows & advanced filtering logic; integrated analytics for system self-improvement and user intent analysis, managing full-stack deployments via CI/CD
- Core Tech: Python, Java, Next.js, Angular, Spring Boot, Generative AI, PostgreSQL, GraphQL, LangChain, NLP, Docker, Kubernetes, Railway, CI/CD, Hostinger, Cloudflare, Analytics, Voice & Multilingual Systems.
- Built multi-step lead/case workflows with rules, retries, and state logs; integrated Twilio/CRMs/MySQL via REST; scheduled jobs via n8n/cron.

**Solutions Engineer – REST Information Technology, Riyadh, Saudi Arabia | Nov 2024 – Jan 2025**

- Built ERP integrations (MySQL/MongoDB) with resilient REST patterns; -40% post-deployment issues, +30% solution fit in presales.
- Customer-facing technical demos converting to pilots at 35%+ win rate.

- Integrated RESTful APIs & data pipelines across SQL & NoSQL systems (MySQL, MongoDB), reducing post-deployment issues by 40% and accelerating onboarding cycles
- Translated business needs into ERP features using SQL and NoSQL systems, delivering product demos and technical walkthroughs
- Partnered with sales & technical teams to ensure smooth implementations, optimising system performance and minimising technical issues
- Core Tech: ERP, SQL, NoSQL, REST APIs, Presales, Node.js, System Integration, MySQL, MongoDB, Business Analysis, B2B SaaS.

## **Full Stack Software Developer (Intern + Full Time) – Valuelabs Solutions LLP / Shutterfly Project, Hyderabad, India | Dec 2022 – Dec 2024**

- Designed Spring Boot services with Hibernate/JPA; -30% API latency (p95) and -25% error budget burn via caching and connection pooling.
- Standardized security (Spring Security, OAuth2) and SAST/DAST gates (Checkmarx, Snyk) resolving 90% vulns pre-prod.
- JUnit/Mockito test suite to ~90% line coverage; SonarQube quality gate maintained across microservices.
- Angular upgrade path and API contract hardening (OpenAPI), cutting regression defects by 25%.
- Created RESTful APIs & dynamic web components using Angular; achieved a 30% API performance boost and 25% user experience improvement.
- Core Tech: Java, Spring Boot, Hibernate, Angular, REST APIs, JUnit, SonarQube, SQL, JDBC, Checkmarx, Snyk, AI Chatbot (AiDE), CI/CD, Testing Automation.

## **PROJECT EXPERIENCE**

### **AI Agent Chatbot | Jan 2025 – Present**

- Developed full-stack conversational AI agent using LangChain & GPT-based NLP with multilingual support, voice/image uploads, OTP verification & AI-driven SQL generation for lead capture
- Built scalable backend & frontend stacks (Next.js, Node.js, Supabase, MySQL) and handled end-to-end DevOps with CI/CD & Cloudflare
- Delivered real-time buyer intent understanding and dynamic property querying, replacing traditional agent functions
- Tech: LangChain, GPT, Next.js, Node.js, Supabase, MySQL, CI/CD, Cloudflare

### **AI Property Recommendation Engine | Jan 2025 – Present**

- Engineered a real-time AI property recommendation engine with interactive map interface using Python & Rails with Redis & Kafka for match scoring & filtering
- Delivered responsive, mobile-first interface using React/Next.js with map features like area selection and streaming indicators
- Designed full system architecture including DB schema, logic pipeline and UX flows to personalise suggestions based on location, price, bedrooms & features
- Tech: Python, Ruby on Rails, Redis, Kafka, React, Next.js, DB Schema Design

### **SEO Automation & Growth Engine (n8n + Zapier) | Jan 2025 – Present**

- Designed end-to-end SEO content pipelines using n8n to generate, QA and publish long-form pages into Botble CMS with image generation via Midjourney and metadata enrichment
- Implemented automated internal linking, sitemap updates and index-notify flows; added scheduled health checks and content refresh triggers
- Built Zapier connectors for enrichment and publishing safety nets with human-in-the-loop approvals
- Tech: n8n, Zapier, Botble CMS, Midjourney, OpenAI, Cloudflare, MySQL, Webhooks, Cron

### **WhatsApp AI Agent Platform | Feb 2025 – Present**

- Built conversation workflows for WhatsApp that capture lead intent, validate phone via OTP and hand off to AI Agent for multilingual property queries
- Implemented session memory, consent logging and analytics to track conversion and agent performance
- Integrated webhook-based notifications to CRM and Slack for high-intent leads
- Tech: n8n, Twilio WhatsApp, OpenAI, Next.js, Node.js, Supabase, MySQL, Webhooks, CI/CD
- Modeled end-to-end lead workflow (OTP → consent → capture → CRM) with rules, retries, and state logging (BPM concepts).

### **AI Property Comparison Tool | Jan 2025 – Present**

- Shipped an AI-assisted side-by-side comparison for projects and units with feature extraction, scoring and rationale explanations
- Implemented schema-aware prompts to align comparisons with DB categories and amenities
- Added exportable comparison summaries for sales teams and clients
- Tech: Next.js, Node.js, MySQL, LangChain, OpenAI, Cloudflare, Redis

### **Platform Performance, Security & Data Ingestion Revamp | Jan 2025 – Present**

- Enforced performance budgets on key routes (Lighthouse at least 95, CLS at least 0.05, TBT no more than 150 ms) via Cloudflare CDN, responsive images and preconnect
- Capped homepage payloads (JS no more than 180 KB/120 KB CSS) by deferring non-critical assets, code-splitting bundles and route-level prefetch
- Revamped 100+ files of real estate CMS to modernise dashboards, add modules & dynamic listings and ensure compliance with GDPR/SEO standards
- Tuned Core Web Vitals through image policies, font loading strategies and controlled hydration; added uptime and SSL/TLS monitors with alerting
- Built no-/low-code CRM ingestion with schema validation, deduplication, geocoding and media normalization; implemented retry, idempotency and full audit trails
- Designed property-scoped credit quotas and rate-limits supported for credits per property per day, with time-window metering, reconciliation jobs, fintech billing hooks and admin dashboards for anomaly and cost-to-serve visibility

- Tech: Botble CMS, PHP, Cloudflare, Hostinger, FileZilla, Cloudflare CDN, Next.js, Nginx, Lighthouse/Lighthouse CI, Webpack/ESBuild, Cloudflare Security, Snyk, Checkmarx, Python FastAPI, MySQL, Supabase, Cloudflare R2, Node.js, Cron, Redis, Fintech APIs, implemented retry, idempotency, and full audit trails (**case/queue management aligned to BPM practices**).

#### **OCR Extraction for Real Estate Excel | Aug 2025 – Present**

- Built Excel-focused extraction to normalize price, area, handover, payment plans and unit mix with validation against master schemas
- Implemented fuzzy matching, dedupe rules and quality gates before DB import
- Tech: Python, Pandas, Pydantic, FastAPI, OpenAI, MySQL, Supabase

#### **Omni-Format OCR & Listing Ingestion Engine | Aug 2025 – Present**

- Designed a global ingestion tool to parse PDFs, brochures, images and spreadsheets into a unified listing schema with human review loops
- Added document classifiers, layout parsing and confidence-based field validation before publishing to CMS
- Exposed REST endpoints and admin UI for bulk uploads and error correction
- Tech: Python, FastAPI, OpenAI, Document Parsers, Cloudflare R2, MySQL, Next.js Admin UI

#### **AI Fraud Detection System | Dec 2024 – Present**

- Architected and deployed full-stack fraud detection engine using Java Spring Boot & Angular to identify duplicate & fake listings using pattern recognition and external data APIs
- Integrated PostgreSQL with rule-based and AI techniques to flag suspicious listings, reducing lead fraud risk and improving broker transparency
- Managed backend design, DevOps pipeline setup, containerization & deployment and developed interactive dashboard for real-time analysis
- Tech: Java, Spring Boot, Angular, PostgreSQL, Docker, Kubernetes, Data APIs

#### **Employee Management System | Jul 2023**

- Developed Angular/Spring Boot employee management system enabling CRUD operations and used SQL & advanced queries to efficiently manage structured data
- Created responsive UI using Angular Material & Bootstrap, achieving 30% increase in user satisfaction
- Implemented RESTful APIs using Spring Boot to improve data retrieval by 25% and enhance performance
- Tech: Angular, Spring Boot, SQL, REST APIs, Responsive UI, Agile Development

## **SKILLS**

- **Languages & Databases:** C/C++, Java, Python, TypeScript, HTML/CSS, MySQL, PL/SQL, Oracle, PostgreSQL, MongoDB, Redis, Neo4j, Firebase, Elasticsearch
- **Frameworks & Libraries:** Spring Boot, FastAPI, Django, React, Next.js, Angular, Express, Flutter, Node.js, GraphQL, LangChain
- **Technologies & Tools:** LLM Fine-tuning, Generative AI, Docker, Kubernetes, AWS, GCP, Redis, Kafka, Supabase, Twilio, Microservices, CI/CD, DevOps, Postman, NLP & Voice AI, Prometheus, OpenTelemetry, Feast (feature store), Langfuse
- **Testing & Collaboration:** JUnit, SonarQube, Checkmarx, Snyk, Git, Jira, Confluence, Figma, Trello, Postman, VS Code, Tableau, Jupyter
- **Interpersonal & Leadership:** Client Engagement, Leadership, Communication, Team Collaboration, Agile & Scrum, Project Management, Problem Solving, Presentations
- **Certifications:** Python for Everybody; AWS Solutions Architect Associate; IBM AI Engineering Professional Certificate; Machine Learning (Unschool); Google Digital Marketing; Toastmasters—Public Speaking & Leadership; AWS Cloud Practitioner
- BPM (BPMN concepts), workflow design, rules engines (policy logic), low-code orchestration (n8n/Zapier).