MOHAMMAD RAMIZ

Python AI / LLM / Backend and Android Application Developer

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WHO I AM

I am a software engineer passionate about building scalable applications and solving real-world problems. Skilled in Python, Java, Kotlin, Spring Boot, Hibernate, and Android development, I specialize in backend engineering, REST API integration, database optimization, and developing robust mobile and web applications using modern technologies.

WORK EXPERIENCE

Moglix - B2B supply chain
Software Engineer
July 2026 - Present

- Handling REST APIs, backend system development, VLLMs, OCR techniques and prediction LLM models.
- Worked with Team AI and Analytics to deliver several major clients and internal company solutions.
- **Tools & Tech:** Python, REST APIs, Database, Data Analyst, Kafka, Kaleyra, Git, Docker, AI Models

Python Engineering - Intern
Jan 2026 - July 2026

- Designed and implemented analytical solutions involving data processing, analysis, and programming.
- Collaborated with teams to deliver insights and automate workflows for ongoing projects.
- **Tools & Tech:** Python, Rest APIs, MySQL, PostgreSQL, MongoDB, Data Analyst, Kafka, Kaleyra, Git

Bluestock - Fintech
SDE - Intern
May 2025 - June 2026

- Worked as a Software Development Engineer (SDE) on the development of an internal admin panel.
- Collaborated with the team to design backend logic and implement core functionalities.
- **Tools & Tech:** Python, REST APIs, Web Design, Git

EDUCATION

Schooling / Degree	School / University	CGPA / Percentage	Duration
B. Tech CSE AI and ML	Sharda University	8.3	2022 - 2026
Intermediate (PCM)	Springdale's Childrens School	70%	2021
High School	St Paul's Inter Collage	80%	2019

AWARDS

Jungle Torchbearer Award
Moglix · 2026
Recognised for excellence in demand planning for TSL (Tata Steel), demonstrating independent research and ownership, contributing to OTIF (On-Time, In-Full) improvement from below 50% to 70% and above.

PATENT AND CERTIFICATION

METHOD AND SYSTEM FOR REAL-TIME USER SAFETY DURING VEHICLE COMMUTES
Application No. 202511053637
Published Patent Application · 27 June 2025

- Developed an innovative system for enhancing passenger safety during vehicle commutes, focusing on real-time safety monitoring, risk identification, and proactive intervention to address potential threats.

Machine Learning A-Z™: AI, Python & R + ChatGPT Bonus — Udemy | 2023
AWS Deep Dive – Certificate of Completion — AWS | 2023
Android Application Development — Udemy | 2023

SKILLS

Android Technologies: Jetpack Compose, Room DB, MVVM, PlayStore optimisation
Languages: Python, Java , XML, Kotlin
Database Systems: SQL, MongoDB, FirebaseDB
Web Design: Django Templating, HTML, CSS, JS
Server Framework: Flask, FastAPI, Django
Cloud & DevOps Tech: AWS, Git CICD Pipeline
Version Control: Git, GitHub

HACKATHONS

Hackathon	Venue & Hosts	Leaderboard	Year
• 6th Technovation Hackathon	Sharda University, Greater Noida	6th place	2024
• Hack KRMU 4.0	KRMU University, Gurugram	Finalist	2024
• Road Safety Hackathon	NHAI and HOAI, Delhi	Semi-Finalist	2024
• Build with India Hackathon	Google Office, Gurugram	8th place	2024

PROJECTS

Ramanujan: Agentic Conversational Analytics Assistant
An AI analytics copilot that lets business teams ask questions in plain English inside Microsoft Teams and get answers from enterprise data in seconds, with no SQL and no dashboards.
Tech used: Python, FastAPI, Gemini, Vertex AI, BigQuery, Qdrant, Sentence-Transformers, Microsoft Graph API, Docker

- Built a Gemini ReAct agent that turns natural-language questions into governed BigQuery SQL. It uses RAG over a Qdrant-backed KPI glossary with sentence-transformer embeddings, so answers match the business definition of each metric.
- Engineered a production-grade FastAPI service on Vertex AI using hexagonal architecture. Safety layers include a SQL policy engine with row-level access control, grounding guardrails against hallucinated answers.

Confess: Anonymous Social Platform
Built a privacy-focused anonymous social platform enabling users to share confessions, thoughts, and experiences while fostering open and supportive community interactions.
Available on: Playstore.com/confess | confess.mohammadramiz.in
Tech used: Android, Backend & APIs, Firebase, AWS, Python, React, TypeScript, Tailwind CSS, Cloudinary.

- Engineered a secure anonymous platform with Google Sign-In, end-to-end encryption, and biometric authentication, ensuring user privacy and data protection.
- Developed a responsive promotional website using React, Vite, TypeScript, and Framer Motion, featuring platform highlights and seamless app download access.

Safety-Stock Intelligence Platform: Demand Planning & MRP Optimization
An ML-driven demand planning and inventory optimization platform built at Moglix for enterprise clients Tata Steel (TSL) and Hindustan Zinc (HZL), automating MRP tagging, demand classification, and safety-stock computation for intermittent and lumpy industrial demand.
Tech used: Python, FastAPI, Dash, Prophet, LightGBM, Pandas, SQLite, MySQL, Docker, REST APIs, Time-Series Forecasting

- Engineered an end-to-end MRP pipeline for Tata Steel and Hindustan Zinc, consolidating batch workflows for MRP tagging, vendor lead time, and ML-based MRP levels into a single system. Demand is classified with the Syntetos-Boylan framework (ADI, CV^2). Safety stock is forecast using Prophet, statistical models, and compound Poisson modeling with newsvendor cost asymmetry. The work raised Tata Steel's OTIF from below 50% to over 70% and earned Moglix's Jungle Torchbearer Award.
- Architected a Dockerized FastAPI platform with an interactive Dash dashboard and REST APIs. Features include multi-engine model comparison, real-time recomputation of demand metrics and trend classes, plant, trend, and status filters, and Excel export. Hindustan Zinc's planning pipeline was migrated from the Django ORM to a pandas-based data layer.

SupplierInv: AI-Powered Invoice Intelligence Pipeline
An automated invoice processing system built at Moglix that extracts, validates, and reconciles supplier invoices at scale using generative AI.
Tech used: Python, Gemini, AWS Textract, Pydantic, Kafka, MongoDB, BigQuery, Power BI

- Built a GenAI document pipeline using Gemini and AWS Textract that reads unstructured invoices and turns them into schema-validated data. A real-time Kafka → MongoDB → BigQuery backbone streams the data at enterprise scale.
- Automated reconciliation with fuzzy item matching, tolerance bands, HSN validation, and GSTIN compliance checks, replacing hours of manual review with zero-touch processing. The results feed live Power BI dashboards for procurement analytics.

Conversational Procurement Intelligence Platform
An AI-powered procurement assistant accessible through WhatsApp, enabling users to interact with sourcing workflows through natural-language conversations.
Tech used: Python, FastAPI, WhatsApp Business API, Agentic AI, REST APIs

- Engineered a WhatsApp-integrated AI agent to facilitate conversational procurement workflows, enabling users to interact with sourcing operations through natural-language queries.
- Developed backend services and agent orchestration pipelines to process user requests, execute sourcing workflows, and deliver contextual responses through WhatsApp.

Bakup: A Git Like backup system
A self-hosted backup solution similar to Git, allowing users to create local snapshots, push them to their server when online, and easily restore previous versions. It focuses on secure, offline-first, and deduplicated backups.
Available on: github.com/RamizMohammad/Bakup-Release/releases | bakup.mohammadramiz.in
Tech used: Python, FastAPI, REST APIs, SQLite, Docker, Docker Compose, SHA-256, Docker Hub, HTML, CSS, Javscript

- Engineered Bakup, a Git-inspired, offline-first backup platform featuring versioned snapshots, secure server synchronization, and SHA-256-based content-addressable storage for efficient data deduplication.
- Architected a cross-platform ecosystem comprising a FastAPI backend, web dashboard, token-based authentication, and Dockerized deployment, alongside CLI tools for init, commit, push, clone, and restore, packaged for Windows, Linux, and Python distributions.

Snapy: Root-Free Android Snapshot & Restore Tool
A one-click backup tool that captures an Android phone's full state to a PC and restores it after a wipe or OS reinstall, with no root access needed.
Available on: https://github.com/RamizMohammad/snapy/releases
Tech used: Python, ADB, PySide6, Qt, CLI Tooling

- Engineered a snapshot-and-restore engine that runs entirely over ADB, so it works on stock, unrooted phones. A phone can be wiped, reinstalled, and brought back to its earlier state without a cloud account or rooting.
- Shipped it as a Loopax Technologies product with a Python CLI and a PySide6 desktop app. The app has a polished dark UI, which I prototyped with Google Stitch and then rebuilt natively for Windows.