

# Ali Saleh

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## PROFESSIONAL SUMMARY

Software Engineer working across backend systems, data pipelines, and AI-driven features. Strong in Python and SQL, with experience building production systems using Airflow, BigQuery, FastAPI, and LLMs, along with solid frontend experience in Next.js and TypeScript.

## WORK EXPERIENCE

### Data Engineer, Devsinc

July 2025 – Currently

- Worked as a Data Engineer using Airflow, Google Data Fusion, and BigQuery to build and manage data pipelines.
- Created client-facing reports in Looker Studio and Tableau, requiring strong SQL and analytical skills.
- Optimized data workflows and improved pipeline reliability for large-scale reporting systems.

### AI Engineer, CodAgentic

Feb 2025 – May 2025

- Developed automated systems to scrape the internet for research on companies, gathering key business insights.
- Integrated multiple APIs to aggregate company profiles, extracting metrics like employee count, revenue, and location.
- Built a system that processes queries in real time, retrieving and filtering relevant companies based on search criteria.

### Associate AI Engineer, BitPix Soft

Jul 2024 – Aug 2024

- Developed a RAG system from scratch and integrated multiple LLMs (API and Local) with hybrid search (semantic & keyword) using ChromaDB and Streamlit. It also included custom chunking, dual-stage retrieval, and prompting.
- Reimplemented the RAG system using LlamaIndex to enhance performance, scalability, and overall system efficiency.
- Handled all test cases, wrote well-documented functions, and followed a modular approach for the key functionalities.

### Trainee Software Engineer, Stewart Pakistan Private Limited

Mar 2024 – Jun 2024

- Worked on Node.js, MongoDB, and Express.js for backend development.

## PROJECTS

### Developer, AI Automation for Sales and Customer Care

Aug 2024 – May 2025

- Automated end-to-end CRM integration with zero human intervention by designing an LLM-based schema-matching algorithm, enabling seamless data ingestion and mapping.
- Architected a scalable microservice ecosystem using FastAPI backend, Next.js frontend, and PostgreSQL database, integrating Celery and Redis for reliable inter-service communication and reduced message latency.
- Built AI Sales Agent using ElevenLabs, Twilio, LangGraph and LLMs to automate CRM workflows and sales dialogues.

### Developer, RAG with Multi-Retrieval Pipelines

- Built a complete pipeline from scratch using ChromaDB and chunk-based splitting for better retrieval performance.
- Implemented hybrid retrieval by combining keyword and semantic search to improve both precision and recall.
- Replicated the full retrieval flow using LlamaIndex to evaluate performance, ease of use, and modular flexibility.

## SKILLS

**Languages:** Python, JavaScript, TypeScript, HTML, CSS

**Technologies:** FastAPI, Flask, TensorFlow, Keras, PyTorch, LlamaCpp, LangChain, LlamaIndex, LangGraph, ChromaDB

## EDUCATION

### Bachelor's in DataScience, FAST-NUCES

Aug 2021 - Jun 2025

- Data Structures and Algorithms, Database Systems, Natural Language Processing, Data Visualization and Analysis, Generative AI, Object-Oriented Programming