ARIF BABAYEV

AI & Automation Engineer

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Profile

AI & Automation Engineer specializing in LLM-powered systems that transform complex business processes into efficient, scalable solutions. With deep backend expertise, I architect production-grade AI workflows — including RAG architectures, advanced prompt engineering, hallucination mitigation, structured outputs, and Azure-based integrations — delivering measurable reductions in manual work and significant operational impact. Proven track record across startups and enterprises building reliable, observable, and business-aligned AI products that stakeholders actually adopt and rely on.

EXPERIENCE

AI & Automation Engineer, *Kontakt*   01/2026 – Present
Baku

- Analyzed cross-department processes and delivered LLM-powered automation solutions, significantly reducing manual work.

- Architected and deployed internal RAG system on Azure (Azure AI Search / pgvector on Azure PostgreSQL) for grounded, accurate knowledge retrieval and domain-specific responses.

- Built intelligent workflows and campaign/knowledge systems using advanced prompt engineering (chain-of-thought, few-shot), guardrails, and structured output parsing.

- Engineered integrations (APIs, webhooks) with ERP/corporate systems, Firebase for real-time features, and established data contracts (CSV/Excel schema mapping & validation). Implemented hallucination mitigation, audit logging, and monitoring in Postgres/SQL (Azure-hosted) for traceable, production-safe AI outputs.

Founder / AI Engineer, *Backlify AI*   06/2025- 01/2026
Baku

- Built an AI-assisted backend automation platform from scratch, focusing on fast iteration and product-driven development.

- Architected and built AI-powered backend automation platform from scratch using Python, LLM APIs (OpenAI/Llama/Mistral), and LangChain-style orchestration.

- Managed the entire product lifecycle: ideation, architecture, development, testing, and user onboarding.

Backend Developer, *YapıKredi Bank*   07/2023 – 01/2026
Baku

- Developed and maintained core banking services, delivering new features, resolving complex issues, and ensuring high system reliability.

- Integrated external insurance services into internal banking systems, improving data flow, operational efficiency, and customer process automation.

- Participated actively in Agile workflows, collaborating with cross-functional teams and contributing to sprint planning, refinement, and continuous delivery.

- Supported the implementation and migration of Actimize workflows, ensuring compliance, data accuracy, and seamless interaction between internal departments.

FRONTEND DEVELOPER, *STARTUP*   08/2022 – 12/2024
                                                                                      Baku

- Contributed to the full product development lifecycle: design, development, testing, deployment, and ongoing maintenance of core features.

- Built and enhanced scalable web applications using MERN stack (MongoDB, Express.js, React, Node.js).

- Collaborated on feature implementation, bug fixes, performance optimizations, and user experience improvements for production environments.

EDUCATION

BACHELOR DEGREE, *AZERBAIJAN STATE OIL AND INDUSTRY UNIVERSITY*   2022 – 2026
                                                                                      Baku

SOFTWARE DEVELOPER BOOTCAMP, *CODE ACADEMY AZERBAIJAN*   03/2022 – 08/2022
                                                                                      Baku

SKILLS

Programming Languages
Python — Proficient
NodeJS — Proficient
.NET Framework / .NET Core — Proficient
React (Client-side) — Proficient
Git, Jira — Proficient

Databases & Data
Oracle Database (SQL, PL/SQL) — Proficient
PostgreSQL / SQL — Proficient
MongoDB, MS SQL, Supabase — Competent
Vector Databases / Embeddings — Competent

AI / LLM & Frameworks
Prompt Engineering — Proficient
AI / LLM Integration / LLM APIs — Proficient
LangChain / Chatbase Tools — Competent
RAG Systems — Competent

Cloud & Infrastructure
Azure, AWS, Google Cloud — Competent
Firebase — Competent
AWS / Google Cloud — Competent
Docker — Amateur

LANGUAGES

- Azerbaijani & Turkish
- English
- Russian

Soft Skills

- Dependability
- Problem-solving
- Critical thinking

- Teamwork
- Adaptability
- Continuous Learning

COMPETETIONS

- **Junction X Hackathon (4th Place):** Represented Azerbaijan at Europe's largest hackathon, developing a competitive solution in Finland, an international team environment.

- **Pasha Pay Hackathon (2nd Place):** Proposed biometric payment solutions aimed at enhancing the m10 digital wallet and improving user experience.

- **IDDA Hackathon (1st Place):** Analyzed consumer shopping behavior and delivered practical, data-driven solutions for retail chain optimization.