

Rashad Musayev

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Professional Summary

Software Engineer with about four years of experience developing scalable backend systems, RESTful APIs, and distributed applications using Python and Django. Recently completed an M.Sc. in Computer Science at Eötvös Loránd University (ELTE) and admitted to the Ph.D. Programme in Informatics at Széchenyi István University. Experienced in AI-assisted software engineering, LLM-based analysis pipelines, backend architecture, PostgreSQL, Redis, Docker, and cloud-native development. Passionate about building maintainable, high-performance systems and applying artificial intelligence to software engineering.

Work Experience

Software Engineer (Contract), Speakday (Remote)

July 2026 – Present

- Develop and maintain the Django/Celery/PostgreSQL backend of an AI-powered spoken-language practice platform with live conversations (LiveKit) and speech-to-text transcription (Speechmatics), delivering changes through a spec-implement-review-deploy workflow across UAT and production.
- Replaced a batch-scheduled (cron-based) session-analysis trigger with an event-driven one, so learners receive AI feedback reports right after a conversation ends instead of waiting for the next scheduled run.
- Fixed per-participant audio trimming and transcript-sentence derivation bugs, and wrote repair and backfill management commands to correct affected records on UAT safely (dry-run, then apply).
- Improved LLM prompts for session feedback (key insights, vocabulary, practice exercises) and for weekly conversation generation, and exposed the resulting data through the API.
- Fixed a data-exposure issue on a public API endpoint, added per-channel notification preferences, redesigned the admin session-report view, and removed a legacy Janus media-server dependency.

Freelance Software Engineer, MECC Group, Budapest, Hungary (Remote)

May 2026 – Present

- Built and shipped four production web platforms for MECC Group, an international construction company, and its residential brands: [mecc.group](#), [m21apartments.com](#), the Campus Residences marketing site, and a shared internal admin platform.
- Developed bilingual (EN/HU), server-rendered marketing sites with TanStack Start (React 19 SSR) and Cloudflare Workers, including apartment/floor-plan browsers and Supabase-backed inquiry forms protected by Cloudflare Turnstile and rate limiting.
- Designed and built **mecc-admin**, a centralized authentication and content-management platform providing single sign-on across three Supabase schemas (mecc/mor21/campus) with per-brand role-based access and content management for hero slides, services, team, apartments, blog posts, and leads.
- Hardened all four applications with CSP nonces, security headers, sanitized rich-text rendering, Supabase row-level-security policies, and Playwright end-to-end tests; automated deployments to Cloudflare Workers via CI/CD.
- Added bilingual SEO blog publishing (canonical URLs, structured content) and configured an AI marketing workflow (Sintra AI) with a brand-voice knowledge base and agents for social-media scheduling and SEO content across LinkedIn, Facebook and Instagram.

Software Engineer (Remote, Full-time), Clisso, London, United Kingdom

Jan 2025 – Oct 2025

- Designed and deployed microservices-based backend applications using Python, Django REST Framework, and PostgreSQL.
- Architected and optimized scalable database schemas for high-volume data systems, tuning queries and indexes to reduce latency.
- Collaborated closely with DevOps to set up CI/CD pipelines and streamline deployments, shortening release cycles.
- Worked in an agile Scrum environment, participating in sprint planning, code reviews, and mentoring.

Software Engineer, Codelandia Software Center, Baku, Azerbaijan

Feb 2023 – Sep 2024

- Built a data-intensive tutoring platform using Django REST Framework and Svelte.js, driving stronger user engagement.
- Automated deployments with GitHub Actions and Docker, making releases more reliable and reducing downtime.
- Optimized API serialization and added Redis caching, noticeably cutting response times.

Education

Ph.D. in Informatics, Széchenyi István University, Győr, Hungary

2026 – Present

- Admitted to the Ph.D. Programme in Informatics.
- Research focus: knowledge graphs and retrieval-augmented generation for IT operations; first publication, a systematic literature review of the research domain, is in preparation.
- Research interests include Artificial Intelligence, Software Engineering, Large Language Models, Knowledge Graphs, and Multi-Agent Systems.

M.Sc. Computer Science, Eötvös Loránd University (ELTE), Budapest, Hungary

2024 – 2026 (graduated July 2026)

- **Master's Thesis:** [AI Stakeholder Agents for Automated Requirements Engineering](#) — a multi-agent AI platform that automates stakeholder analysis, detects ambiguities in software requirements, and supports requirement refinement using LLMs and Retrieval-Augmented Generation (RAG) over project documentation.
- Built the backend with Python, Django, PostgreSQL (pgvector), Redis, Celery, and the OpenAI API.

B.Sc. Computer Engineering, ASOIU, Baku, Azerbaijan

2020 – 2024

Technical Skills

- **Programming:** Python, SQL, TypeScript
- **Frameworks:** Django, Django REST Framework, FastAPI, Flask, React, TanStack Start
- **Databases:** PostgreSQL, MySQL, MongoDB, Redis, pgvector, Supabase (Auth, RLS, migrations)
- **AI:** Large Language Models (LLMs), Retrieval-Augmented Generation (RAG), Multi-Agent Systems, Knowledge Graphs, Prompt Engineering, Systematic Literature Reviews (PRISMA), AI-assisted development (Claude Code)
- **DevOps:** Docker, Kubernetes, GitHub Actions, GitLab CI/CD, Cloudflare Workers, Gunicorn, Nginx, Cron/Celery scheduling, UAT/production deployment
- **Cloud:** AWS, Cloudflare, Linux
- **Architecture:** Microservices, Clean Architecture, Domain-Driven Design, REST APIs, Event-driven design
- **Security & Quality:** Row-level security, CSP, Cloudflare Turnstile, secret scanning, Playwright, Django test suites, ESLint, code review
- **Other:** Celery, LiveKit, Speechmatics, Git, Poetry, Bootstrap, Tailwind CSS
- **Languages:** Azerbaijani (native), English (C1)

Projects

- **DDA (Digital Driving Academy)** — Backend for a scalable driver education platform. *Django REST Framework, PostgreSQL, Redis, Celery, Docker*
- **LeadTech** — High-performance e-commerce store API optimized for low-latency queries. *Django REST Framework, PostgreSQL, Redis, Docker*
- **Additional client projects:** [Keys Bright Logistics](#) (backend for a logistics website) and [Ambulance Appliance](#) (appliance repair platform) — Django, PostgreSQL, Docker.