

Ravshanjon Ahmadjonov

Agentic AI Engineer

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AI Engineer building production-ready systems that solve real problems.
Strong backend foundation with FastAPI, Django, and scalable APIs.
Focused on agentic AI - RAG pipelines, vector search, and LLM guardrails at JSC Garantbank.
Curious by default - I dig deep until I truly understand how things work.

SKILLS

LangChain	<i>Experienced</i>	Docker	<i>Skillful</i>
FastAPI	<i>Experienced</i>	GraphQL	<i>Skillful</i>
SQL	<i>Experienced</i>	Qdrant	<i>Skillful</i>

EXPERIENCE

Agentic AI Engineer

Dec 2025 - Present

JSC Garantbank | Tashkent

- Built an enterprise RAG assistant for bank employees by integrating vector search + cross-encoder reranking + LDAP auth, enabling instant AI-powered Q&A over internal documents.
- Launched Garantbank's first AI chatbot on Telegram by building a multi-language RAG pipeline with LangChain + LLM, automating customer support inquiries.
- Engineered a multi-format document ingestion pipeline with OCR fallback, powering semantic search across all knowledge sources.
- Integrated LLM tool-calling for automated CRM lead capture, detecting purchase intent and validating contacts directly within chatbot conversations.

AI/ML & Software Engineer

May 2024 - Dec 2025

Tashkent State Technical University | Tashkent

- Processed patient data, managed model inferences, and returned diagnostic results, ensuring seamless communication with the frontend via AJAX and real-time updates through WebSocket.
- Integrated Celery for asynchronous background processing of model inferences, enabling the system to handle 5,000+ requests/month without performance degradation.
- Achieved 93% accuracy for the DICOM-based detection model and 96% accuracy for the lung sound detection model, enabling early-stage detection of lung diseases.

Software Engineer

Jun 2023 - Nov 2025

JSC Asakabank | Tashkent

- Built a universal calculator for products, including integrated insurance cost computation, used in 100% of loan applications across 12 branches.
- Implemented a Lead-to-Client tracking system that improved sales funnel visibility and increased conversion rates by 18% in the first 3 months.
- Developed a creditworthiness assessment engine that evaluates loan eligibility based on salary and debt burden, processing over 5,000 applications per month with 96% accuracy.
- Designed and integrated a dynamic, role-based permission system supporting 10+ roles and 300+ active users, ensuring secure and flexible access.
- Optimized ORM queries with aggregation, annotation, and prefetching, reducing dashboard load time by 85% even on datasets exceeding 1M+ records.
- Conducted code reviews and mentored 2 junior developers to improve code quality and ensure adherence to best practices.

Backend Developer

Jun 2023 - Aug 2023

UIC Group | Tashkent

- Developed chess platform like chess.com.
- Led a team of 4 people and served as a product owner.
- Regularly gave talks about clean code, automated tests and best practices.

Python Instructor & Mentor

Aug 2021 - Jun 2023

PDP Academy | Tashkent

- Taught and explained advanced backend topics such as Django + AWS, focusing on deployment strategies, environment configuration and cloud-based scalability.
- Developed and delivered hands-on sessions on Django + GraphQL, guiding students through schema design, resolver implementation and efficient querying techniques.
- Covered real-time communication using Django Channels + WebSocket, demonstrating how to build chat apps and live notification systems.
- Explained multi-language support in web applications through Django Localization and Internationalization including language switching, translation files.
- Provided deep insights into Django REST Framework (DRF), covering serialization, authentication and building scalable RESTful APIs with best practices.

EDUCATION

Master - Information Technology

Sept 2021 - Jul 2023

Tashkent University of Information Technology | Tashkent

- Researched Machine Learning, developing efficient models for pattern recognition, prediction and deep learning.
- Delivered talks and mentorship on software design, scalable architecture, and clean code for bachelor graduates.
- Courses: Cloud Platforms, Big Data, Deep Learning

Bachelor - Computer Science

Sept 2017 - Jul 2021

TUIT Fergana Branch | Fergana

- Participated in a C++ competition among 300 students from all branches and took 5th place.
- 2nd place in the "Most Complex Object" nomination using OpenGL (14 teams participated).
- Courses: Computer Science, Object Oriented Programming, Database Systems.

PORTFOLIO

PulmoAI

Sept 2024 - Nov 2025

mv.t.pulmoai.uz

- Developed and deployed deep learning models for lung disease detection using TensorFlow.
- Built separate AI models for lung voice analysis by MFCCs algorithm (96% accuracy) and lung DICOM image classification (93% accuracy).
- Integrated the models with a Django Rest Framework (DRF) backend, ensuring seamless AI inference in a web-based API.

YesWeCan

Nov 2024 - Oct 2025

cando.uz

- Designed and developed the backend architecture for the platform, ensuring high scalability, security, and maintainability.
- Developed and integrated a secure and efficient payment system, allowing seamless financial transactions within the platform.
- Implemented a proposal-driven workflow where freelancers submit detailed proposals to employers. Designed a ranking and filtering system based on quality, relevance, and freelancer ratings.
- Built a flexible and optimized API using GraphQL, enabling efficient data retrieval. Designed a structured schema and resolvers to enhance query performance and improve developer experience.

Activity Tracker

Jul 2023 - Sept 2023

JSC Asakabank

- Comprehensive system designed to monitor and record computer usage and activity patterns.
- Built using Python and Django, with a frontend component developed using Tkinter for the GUI. Also utilizes web API for data transmission.
- Demonstrates proficiency in Python programming, GUI development, data serialization and HTTP communication.
- Valuable tool for individuals interested in self-monitoring computer usage or analyzing productivity patterns.