

Arman Sarsembek

Backend / GenAI Developer

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Profile

Backend / GenAI developer with 2+ years of experience building SaaS, MedTech, and AI-driven products. Specializing in scalable microservice architectures using Python and FastAPI, LLM integrations, development of voice and chatbots, and automation of patient services. Experienced in building backend infrastructure for high-load systems and digital ecosystems for healthcare organizations.

Core Expertise

- GenAI chatbots and voice bots for healthcare organizations
- LLM integrations, RAG architectures, and vector databases
- Medical information systems and patient service digitalization
- Design of scalable and fault-tolerant microservice architectures

Work Experience

BP Contact, Almaty

Backend Developer

Python, FastAPI, GenAI, MedTech

2025 – Present

- Contributing to the development of a digital MedTech ecosystem for healthcare organizations and government institutions.
- Developing GenAI-powered chatbots and voice bots to automate patient communication with clinics and call centers.
- Implementing backend systems for self-service terminals used in city clinics, EmirMed medical network, and the Almaty Prosecutor's Office.
- Building automated reminder services and feedback collection systems using robotic phone calls.
- Designing microservice architectures, API gateways, and service-to-service integrations.
- Integrating with medical information systems: Damumed, Medelement, Medart.
- Integrating with communication services: Asterisk, WhatsApp Business API, Telegram Bot API.
- Developing AI infrastructure using OpenAI, Langfuse, RAG pipelines, and Qdrant vector database.
- Managing access control and security using Zitadel, RBAC, and Infisical.
- Containerizing and deploying services using Docker and Dokploy.

Adcreator, Almaty

Python Developer

Python, FastAPI, Django, AI

2024 – 2025

- Developed backend services for an AI ecosystem of tools for influencers and digital creators.
- Built media processing and AI content generation services using FastAPI and Celery.
- Developed scalable APIs and optimized PostgreSQL performance.
- Containerized services, implemented CI/CD pipelines, and monitored system performance.

ShareX, Almaty

Full-Stack Developer

React, NextJS, Django

2023 – 2024

- Developed SaaS platforms and e-commerce solutions with SSR architecture and high-performance interfaces.
- Implemented payment integrations and optimized user interaction flows.
- Improved frontend architecture and optimized release and deployment processes.

Skills

Languages: Python, Go, JavaScript, TypeScript, SQL

Backend: FastAPI, Django, Flask, Celery, SQLAlchemy, REST API, Microservices

AI / GenAI: OpenAI API, Langfuse, RAG, Qdrant, LLM Integrations, Prompt Engineering

Integrations: Medical systems, Telephony, Messaging platforms, Payment services

DevOps: Docker, Docker Compose, Dokploy, Portainer, CI/CD, Nginx, Traefik

Security / IAM: Zitadel, RBAC, Secrets Management (Infisical)

Databases and Brokers: PostgreSQL, Redis, RabbitMQ, MongoDB

Education

Kazakh-British Technical University

Bachelor's Degree in Information Technology (2021–2025)

Languages

Kazakh (Native), Russian (Fluent), English (Professional Working Proficiency)