

ADILKHAN ALIEV

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SUMMARY

Backend / LLM developer with 3 years of commercial experience in **Go** and over 5 years in programming and IT. Skilled in designing **scalable microservices**, integrating third-party systems, and implementing AI-driven solutions using **RAG** and **Vector Databases**.

EXPERIENCE

Backend Developer / RAG (Laravel / Golang), TrustExam (On-site) *September 2025 – Present*
Astana, Kazakhstan

- Implemented **RAG (Retrieval-Augmented Generation)** pipelines using **Pinecone** for vector storage and integrated **OpenRouter**, **OpenAI**, **Anthropic**, and local **Ollama** models.
- Building and enhancing admin panels for internal and client use (**Laravel**, Nova/Blade).
- Migrating critical components from Laravel to **Go** to support high-load traffic (**10,000+ RPS**, Microservices).
- Proposing and implementing architectural optimizations, reducing system latency by **60%** (from 200ms to **<80ms**).
- Designing **CI/CD pipelines** for **zero-downtime deployments**, reducing release time by **40%**.
- Leveraged **LLM tools** to rapidly develop frontend interfaces, enabling faster delivery of full-stack features.

Golang Backend Developer, SmartVend (On-site) *March 2024 – August 2025*
Astana, Kazakhstan

- Integrated **Kaspi payment system** and developed a full-featured payment service processing **5,000+ daily transactions**.
- Implemented backend integration with mobile apps ensuring secure transactions with **99.9% reliability**.
- Designed and developed payment integration with Kyrgyz banks (**MBANK**, **ODENGI**) for vending machines, including a client admin panel.
- Used **RabbitMQ** for module integration and asynchronous communication (**Event-Driven Architecture**).
- Designed and implemented RESTful APIs with **Swagger** documentation.
- Integrated **WebSockets** for real-time data exchange with low latency (**<50ms**).
- Built and launched large-scale backend projects independently from scratch (**System Design**, DB Architecture).

Golang Backend Developer, CerebroLab (On-site) *July 2023 – March 2024*
Astana, Kazakhstan

- Developed new features and improved existing ones according to technical requirements.

- Integrated with third-party services, camera management systems, and terminals, managing **500+ IoT devices** simultaneously.
- Refactored legacy code using **Clean Architecture** principles (**SOLID**, Dependency Injection).
- Configured **Firebase** notifications for mobile applications (Cloud Messaging).
- Worked with high-load access control systems supporting over **4,000 users**.
- Set up **Redis caching**, reducing database load by **70%** and API response times.
- Implemented real-time data processing using **WebSockets** (socket.IO).
- Successfully completed the project ahead of schedule, enabling timely deployment.
- Documented APIs using **Swagger** (swaggo).

EDUCATION

Master of Computer Science and Engineering, Astana IT University

March 2025

Alem School, Intensive Software Development Program

March 2023 – October 2024

Bachelor of Physics and Technology, L.N. Gumilyov Eurasian National University
Dec 2019 – Jun 2023

SKILLS

Languages:

Golang, Java, PHP

Technologies:

PostgreSQL, Redis, MongoDB, RabbitMQ, Firebase, Docker, Git, WebSockets, REST API, Nginx, k8s, GitHub Actions, Minikube, **Pinecone**, **Ollama**, **OpenAI API**

Concepts:

OOP, Clean Architecture, Code Optimization, Refactoring, Data Structures and Algorithms, DevOps Fundamentals, **RAG**, **Vector Search**, **LLM Integration**

COURSES

Alem School — Golang Track

Dec 2023 – Oct 2024

Backend-oriented track focused on teamwork and peer-to-peer learning.

[Certificate link](#)

Runtime — Java Basics

May 2023 – Aug 2023

Studied key Java concepts and completed hands-on assignments.