

# Aleksey Yarosh

Backend Developer (Intern)

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## SUMMARY

Aspiring Backend Developer and student at FAMCS BSU. Experienced in competitive programming (ICPC participant). Focused on **Go** development with a strong understanding of microservices architecture and system reliability principles. Seeking an opportunity to join a commercial development team, applying modern methodologies and tools.

## TECHNICAL SKILLS

- **Programming Languages:** Golang (*Junior*), SQL (*Basic*), C++ (*Academic*)
- **Backend & Networking:** REST API, gRPC, HTTP/HTTPS, JSON, Echo Framework
- **Infrastructure & DevOps:** Docker, Docker Compose, Git, Linux (*Basic*), Google Cloud
- **Databases:** PostgreSQL, Redis, MongoDB
- **Methodologies:** Agile, Scrum, Kanban
- **Productivity Tools:** GPT, Claude, Gemini, Postman

## EXPERIENCE

### Microservices Task Management System

*Go, Echo, PostgreSQL, Redis, Docker*

- Designed microservices architecture using API Gateway and Round-Robin load balancing.
- Implemented the Circuit Breaker pattern to prevent cascading failures and integrated Health Checks.
- Integrated Redis caching (Cache-Aside) to reduce database load and configured Rate Limiting (20 RPS).
- Configured Graceful Recovery for database connections and structured logging.

### Distributed URL Shortener

*Go, Redis, MongoDB, Docker*

- Developed a low-latency service with custom alias generation and link expiration logic.
- Configured environment orchestration via Docker Compose for rapid deployment.

## EDUCATION

### Belarusian State University (BSU)

*Faculty of Applied Mathematics and Computer Science (FAMCS)*

Minsk, Belarus

Graduation: 2028

- **ICPC:** Participation in competitive programming contests (algorithms and data structures).
- **Courses:** Algorithms, Operating Systems, Git course by EPAM.

## ADDITIONAL

- **Languages:** English — B1 (Intermediate), reading technical documentation.
- **Sports & Hobbies:** Professional Billiards, 10 years of competitive swimming.
- **Soft Skills:** Mentorship (helping junior students with programming basics), Problem-solving, Adaptability.