

Abilmansur Muzhubayev

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EDUCATION

Nazarbayev University

August 2020 - June 2024

Bachelor of Science in Computer Science

Astana, Kazakhstan

- **Related coursework:** Algorithms, Performance and Data Structures, Computer Systems and Organization, Software Engineering, Machine Learning.

EXPERIENCE

E-finance center

October 2023 – Present

Software Engineer

Astana, Kazakhstan

- **Optimized ElasticSearch signaling** in Django to lower update time on indexed model objects, allowing to perform update tasks 5-15 times faster.
- **Developed an algorithm** that provides unique identification codes for product categories and recalculates them on hierarchy change without loss of historical code uniqueness, which allowed integration with external systems.
- **Tech Stack:** Python, Django Rest Framework, Docker, Git, PostgreSQL, Celery, RabbitMQ, Elasticsearch

Yandex

June 2023 – October 2023

Backend developer Intern

Remote

- Worked on development of the **end to end testing framework** preventing incidents due to interdependence of multiple standalone services.
- **Dockerized** a cluster of interdependent services, which allowed to run integration tests in an isolated environment with **zero noisy data**.
- **Tech Stack:** Docker, Kubernetes, Spring Boot, Python, Redis, YTsaurus, MySQL

Networks Energy LLC

Dec 2021 – June 2023

Backend developer

Astana, Kazakhstan

- Translated **SOAP** based microservice that forms electronic version of documents from **IBM Websphere** (Java EE) to Open Source (Spring Boot), saving company's **expenditures** due to IBM's license cost.
- **Optimized SMS code validation** process used by **68000 users** on a regular basis in the corresponding microservice, where introduced **3 new DTOs**, feign client, and **anti-DDoS** solution using MemCached.
- Retrieved and visualized metrics data about online user count with classification by groups using **Keycloak-Metrics-SPI, Prometheus** and **Grafana**.
- Identified **bug** that happened due to **Spring's session attributes** access and replaced it with caching in 4 microservices, ensuring proper work during their **horizontal scaling**.
- **Tech Stack:** Java, Spring Boot, PostgreSQL, RabbitMQ, Memcached, Kubernetes, Docker, REST API

PROJECTS

Dormitory Marketplace | [GitHub link](#)

- **Led a team of four** to develop and launch a university-centric platform for buying, selling, and job searching.
- **Optimized search** with Elasticsearch by adding fuzzy and autocomplete features through index configuration and client development.
- Developed and integrated a chat application using **Spring Boot's WebSocket API** and **STOMP JS** client.
- Established a robust web environment on AWS using Docker Compose, deploying a reverse-proxy with Nginx.
- **Tech Stack:** Java, Spring Boot, Vue.js, WebSocket, ElasticSearch, Nginx, Docker, MongoDB, PostgreSQL, Redis

ACHIEVEMENTS

HackNU 2022, Challenge by Google: 1st place and 1500\$ award winner (out of 72 participating teams)

SDU Open: ranked 23/120 with the team of 2 in the competitive programming contest.

Chemistry Olympiads: IChO 2020 - bronze medal (placed 94/235), National Olympiad - gold medal (placed 2/40)

TECHNICAL SKILLS

Languages: Java, Python, C++, SQL, HTML

Frameworks & Libraries: Spring Boot, Django Rest Framework, STL

Databases: PostgreSQL, DB2, MySQL, MongoDB

Developer Tools: Git, Docker, Elasticsearch, Memcached, Redis, RabbitMQ, Lombok, Swagger, Kubernetes