

# ULUGBEK SHERNAZAROV

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## RESEARCH INTERESTS

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Deep Learning, Vision Language Models, Large Language Models, Natural Language Processing, Computer Vision, Face Related Tasks, Visual Tracking, Neural Rendering, Artificial Intelligence for Medicine, Machine Learning

## EDUCATION

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**Asian Institute of Technology**, Thailand

*Expected Aug 2024 - May 2026*

Master of Science in Data Science and Artificial Intelligence

Relevant Coursework: Advanced Algorithms, Distributed Systems, Machine Learning, Computer Vision

**Inha University in Tashkent**, Uzbekistan

*Sept 2019 - May 2023*

Bachelor of Science in Computer Science and Software Engineering

GPA: 4.11/4.5

Relevant Coursework: Data Structures, Algorithms, Operating Systems, Computer Networks

## SKILLS

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**Programming Languages:** Python, C++, Java

**Software Development:** Software Design Principles, Unix/Linux Environments, OOP

**Machine Learning & AI:** PyTorch, TensorFlow

**Web Development:** Django, Flask, RESTful APIs, Vue.js

**DevOps & MLOps:** Docker, Kubernetes, CI/CD (Jenkins, GitLab CI), MLflow

**Databases:** PostgreSQL, Elasticsearch, MongoDB, Chromadb

**Tools & Platforms:** Git, GitHub, AWS, Prometheus, Grafana

**Languages:** English (Fluent), Uzbek (Native), Russian (Fluent)

## RELATED PROFESSIONAL EXPERIENCE

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**AI Implementation Group**

Tashkent, Uzbekistan

*Machine Learning Engineer*

*March 2023 - August 2024*

- Developed a long-distance face recognition system using PoE cameras, increasing identification accuracy by 30%.
- Engineered ML pipelines for biometric recognition and tracking with Docker, reducing deployment time by 15%.
- Architected an Elasticsearch database for over 1.5 million embedding-based indexes, improving retrieval speed by 35%.
- Automated model deployment with Jenkins CI/CD pipelines, enhancing reliability and reducing downtime by 15%.

### **Megafon Internship (Remote)**

*Software Developer Intern*

Moscow, Russia

*July 2022 - October 2022*

- Developed and optimized web-scraping scripts using Python and Selenium, improving data collection efficiency by 30%.
- Enhanced database performance with PostgreSQL virtual tables, reducing query response time by 25%.
- Implemented CI/CD pipelines using Jenkins and Ansible, streamlining deployment processes.
- Monitored system performance in Unix/Linux environments with Grafana and Prometheus, identifying and resolving bottlenecks.
- Collaborated with a team of 5, participating in agile sprints and technical discussions in English.

### **Exadel Internship**

*Python Developer*

Tashkent, Uzbekistan

*April 2022 - June 2022*

- Created parsers and a cleaning-service system with Django and PostgreSQL.
- Developed RESTful APIs using Django Rest Framework and implemented JWT authorization with Djoser.
- Integrated Celery with RabbitMQ for asynchronous tasks, enhancing system efficiency.
- Conducted comprehensive testing with pytest, ensuring high code quality.

## **PROJECTS**

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### **Federated Learning with MedMNIST Chest Dataset**

*Research Project*

[GitHub Link](#)

*July 2023 - August 2023*

- Developed a federated learning system for binary classification on the MedMNIST Chest dataset using Python and PyTorch.
- Collaborated with a team of 4 in a Kaggle Competition, enhancing teamwork and project management skills.

### **Video-Analytics System**

*Python, Django, PyTorch*

[GitHub Link](#)

*March 2023 - Present*

- Built an advanced facial analytics system integrating YOLOv8 for object detection and AdaFace for facial recognition.
- Designed a distributed architecture with Elasticsearch and RabbitMQ, enhancing scalability and performance.
- Utilized Docker and Kubernetes for deployment, ensuring system reliability across environments.

### **Automated Image Classification Web Application**

*Python, Django, Vue.js, PyTorch*

[GitHub Link](#)

*Nov 2022 - Dec 2022*

- Developed a web application using transfer learning with ResNet50 for image classification.
- Implemented asynchronous request handling with Celery and Redis, improving performance.
- Achieved recognition at a hackathon for innovative use of machine learning in web applications.

## **EXTRACURRICULAR ACTIVITIES**

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Ex-member of the Machine Learning Club at Inha University, organizing coding workshops and hackathons.

Volunteer at Asian Institute of Technology, practicing machine learning problems with students via kaggle competitions.