ULUGBEK SHERNAZAROV

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LinkedIn — GitHub: eracoding

EDUCATION

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

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

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) Moscow, Russia
Software Developer Intern *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.

PROJECTS

Federated Learning with MedMNIST Chest Dataset GitHub Link
Research Project *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 GitHub Link
Python, Django, PyTorch *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 GitHub Link
Python, Django, Vue.js, PyTorch *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

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.