

ZHANIBEK DARIMBEKOV

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EDUCATION

Nazarbayev University

Master of Science in Data Science

Expected Graduation: May 2022

Astana, Kazakhstan

Nazarbayev University

Bachelor of Science in Computer Science

2016-2020

Astana, Kazakhstan

Related courses: Algorithms, Performance and Data Structures, Data Mining, Deep Learning, Graph Theory, Software Engineering

EXPERIENCE

Kazdream Technologies

Software Engineer / Team Lead

May 2019 - Present

Astana, Kazakhstan

- Researched and explored open-source data using OSINT techniques
- Automated data collection from social networking sites, messengers and other web and mobile applications for Open Source Intelligence
- Incorporated 20+ web crawlers into a scalable and fault-tolerant API product, implementing asynchronous communication within underlying microservices using AMQP protocol and gRPC framework
- Led a team of 7 Python developers and oversaw the engineering process

PROJECTS

Ossmi Face Search App

Fall 2020

<https://github.com/zhanibek/ossmi>

Incorporated face detection (MTCNN), face embedding learning (FaceNet+InceptionResnetV1), and indexing (Faiss) algorithms to build a fast and interactive face detection and search application on Streamlit. Used Minio and PostgreSQL for object storage and data management.

Attendance Management System using Face Recognition

Fall 2019

Deep Learning Coursework

A software system managing attendance of students in a classroom environment using face recognition. It uses MTCNN for face detection and pretrained FaceNet+SVM model for face recognition

Twitter bot @inhumantwi

Spring 2019

A twitter bot that generates tweets using a probabilistic language model learned on the tweets of its own followings

RESEARCH

Z. Darimbekov, A. Ubingazhibov, Z. Serikbulatova and M. Fatih Demirci, "News2Image: Automated Image Recommendation System to News Articles," 2020 IEEE International Conference on Image Processing, Applications and Systems (IPAS), Genova, Italy, 2020, accepted for publication.

A text-based image retrieval system that recommends a set of images similar to the context of the given news text. It does a direct comparison of the text and candidate images by representing them in a common space preserving the overall semantics and context of both.

SKILLS

Programming Languages: Python, Javascript, SQL

Research: OSINT, Natural Language Processing, Image Processing

SWE: Microservices, API, System Design, Design Patterns

Tools and Frameworks: PyTorch, NLTK, aiohttp, FastAPI, RabbitMQ, gRPC, Redis, Mongo, PostgreSQL, Docker, git, Scrum