ZHANIBEK DARIMBEKOV

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EDUCATION

Nazarbayev University
Master of Science in Data Science — *Astana, Kazakhstan*
Expected Graduation: May 2022

Nazarbayev University — 2016-2020
Bachelor of Science in Computer Science — *Astana, Kazakhstan*
Related courses: Algorithms, Performance and Data Structures, Data Mining,
Deep Learning, Graph Theory, Software Engineering

EXPERIENCE

Kazdream Technologies — May 2019 - Present
Software Engineer / Team Lead — *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/zhvnibek/mtcnn_streamlit

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