ZHANIBEK DARIMBEKOV

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EDUCATION

Nazarbayev University   2020-2022
Master of Science in Data Science   *Astana, Kazakhstan*
Thesis: Sequential deep learning models for human skeleton-based gait recognition

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

ioka.kz   Nov 2020 - Present
Chief Technology Officer   *Almaty, Kazakhstan*
· Designed and built the core services of a payment processing system, including high security card data processing and storage services in compliance with PCI-DSS requirements.
· Integrated private APIs of several bank acquirers to accept payments.
· Participated in all stages of API product development from system design to deployment and maintenance.

Kazdream Tech   May 2019 - Nov 2020
Software Engineer   *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, implementing asynchronous communication within underlying microservices using AMQP protocol and gRPC framework
· Led a team of 7 Python developers and oversee the engineering process

PROJECTS

Ossmi Face Search App   Fall 2020
https://github.com/zhvnibek/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.
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, Computer Vision
SWE: Microservices, API, System Design
Tools and Frameworks: aiohttp, FastAPI, RabbitMQ, gRPC, Redis, Mongo, PostgreSQL, Docker, PyTorch, NLTK, git, Scrum