

# ZHANIBEK DARIMBEK

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## EXPERIENCE

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### ioka.kz

*Chief Technology Officer*

Nov 2020 - Present

*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

*Software Engineer*

May 2019 - Nov 2020

*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

## EDUCATION

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### Nazarbayev University

*Master of Science in Data Science*

2020-2022

*Astana, Kazakhstan*

**Thesis:** Sequential deep learning models for human skeleton-based gait recognition

### 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

## PROJECTS

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### Ossmi Face Search App

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

Fall 2020

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

*Deep Learning Coursework*

Fall 2019

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

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**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

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**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