

# ZHANIBEK DARIMBEKOV

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## EDUCATION

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### Nazarbayev University

*Master of Science in Data Science*

Expected Graduation: May 2022

*Astana, Kazakhstan*

### Nazarbayev University

*Bachelor of Science in Computer Science*

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

2016-2020

*Astana, Kazakhstan*

## EXPERIENCE

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### 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

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### Attendance Management System using Face Recognition

Fall 2019

*Deep Learning Coursework*

The software system managing the attendance of the students in a classroom environment using face recognition. It uses Multi-task CNN 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, 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

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**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