



# NURLAT BEKDULLAYEV

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Kazakhstan

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## TECH STACK

Django

FastAPI

Django REST Framework

Celery

Pytest

Asyncio

PyTorch

openCV

Docker

PostgreSQL

AWS

MongoDB

Git

Github Actions

React

ElasticUI

Python

SQL

Javascript

Matlab

## PRINCIPLES

PEP 8

TDD

BDD

DRY

SOLID

OOP

Agile

Scrum

## LANGUAGES

English: C1, IELTS 8.0

Kazakh: Native

Russian: Fluent

## CERTIFICATES

Advanced Django: Mastering Django and Django Rest Framework Specialization



Django for Everybody



Containerized Applications on AWS



## ABOUT ME

Self-thought back-end developer started in 2022, PhD student in Computational Mechanics in the past.

## PROJECTS

Phrosty |

Service where users can request a cleaning and fulfill a request on-demand

- Developed using TDD and Pytest ecosystem
- Utilizes asynchronous FastAPI and pure SQL ORM for high performance

Country Guess Game |

Daily game where you guess a country by facts about it

- Celery and Django Sessions replace traditional authentication and user data persistence
- CD pipeline using Docker, Github Actions and AWS EC2/ECR

## EXPERIENCE

Research Assistant | Computational Imaging Group

Sep 2022 – May 2023

Thuwal, Saudi Arabia

- Developed scripts for camera calibration using PyTorch
- Translated and extended openCV calibration tool-box from C++ to Python
- Measured performance with multiprocessing sensitivity analysis

Research Assistant | Composite Material Simulation Laboratory

Jul 2022 – May 2023

Thuwal, Saudi Arabia

- Integrated Python-openCV library with multi-camera imaging system
- Developed a new imaging system based on reflective materials

## EDUCATION

MSc in Computational Mechanics | King Abdullah University of Science and Technology

Sep 2019 – Jun 2021

Thuwal, Saudi Arabia

BEng in Mechanical Engineering | Nazarbayev University

Sep 2015 – Jun 2019

Astana, Kazakhstan