Nurlat Bekdullayev

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Personal Blog using Flask

- > A blog written using Flask framework.
- > User and content data is stored in Postgre database.
- > Blogposts are assembled via WTForms and Jinja templating.
- > Deployed on Heroku WSGI server.

Scrapper and Archive Manager for Scientific Articles

- > Beautifulsoup/Selenium based scrapper.
- > Search for scientific articles using university-provided credentials and bib-tex filters.
- > Save and format headers for later \text{M-X} use.

Calibration module for image-based measurements

- > Pure Python implementation of Calib3D module of OpenCV
- > Utilizes OOP principles (the original uses procedural programming).
- > Expanded functionality by integrating SciPy Minimize functions.
- > Added visualozation tools for calibration results.



Research assistant

Computational Imaging Group, KAUST

Sep.2021-Aug.2022 Saudi Arabia

- > Developed a new reconstruction model for single-camera multi-view surface reconstructions.
- > Added functionality from SciPy's toolkit to Calib3D module in OpenCV.
- > Documented workflow of the new calibration algorithm.
- > The metrological application is soon to be publicly released.

Education

King Abdullah University of Science and Technology

MSc in Computational Mechanical Engineering

Saudi Arabia

Nazarbayev University

2015 - 2019

2019 - 2021

BEng in Mechanical Engineering

Kazakhstan

♥ Skills

Programming languages Python, Javascript, HTML5/CSS3, MATLAB

Frameworks Flask, Django

Back-end technical stack Jinja2, SQLAlchemy ORM, Django REST Framework, Django ORM, MySQL, Postgre

Other technical stack Git, Selenium, Bash, OpenCV, TeX

Relevant coursework Distributed Database Systems CS245, Computer Imaging CS394U

Certificates

Online Django for Everybody, course offered by University of Michigan.

Online Advanced Django: Mastering Django and Django Rest Framework Specialization.

