

Bolat Tleubayev

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EDUCATION

Katholieke Universiteit Leuven (KU Leuven)

Leuven, Belgium

- Advanced Master of Science in Artificial Intelligence Grade: 69.25% (Cum laude) July 2021

Nazarbayev University

Nur-Sultan, Kazakhstan

- Bachelor of Science in Robotics and Mechatronics GPA: 3.37 May 2019

TECHNICAL SKILLS

Programming: Python (OpenCV, Keras, sk-learn, tensorflow, CUDA), Azure (Databricks, Active Directory, Data Factory, Synapse, DevOps, CloudShell), MATLAB, Git, Flutter, SQL (T-SQL, SQLite)

Relevant coursework: Machine Learning, Artificial Neural Networks, Support Vector Machines, Computer Vision, Image Processing, Biometrics, Performance and Data Structures

WORK EXPERIENCE

Data Engineer, Chevron subsidiary Tengizchevroil

Mar 2022 - Present

- Designed pipelines for data ingestion and supervised migration of existing infrastructure to Azure Synapse [Azure Databricks, Data Factory, Synapse, DevOps]
- Oversaw git repos for dev and test environments of the Data Foundation for all product lines
- Administration of the data warehouse of the entire facility [SSMS, Data Factory, Power Apps]
- Database access administration on all development environments [Azure AD, CloudShell]
- Developed end-to-end dashboards for data quality monitoring [SSMS, Databricks, PowerBI]

Software developer, Open Summer of Code and imec

Jul 2021

- Created native iOS augmented reality application for visually impaired people at Belgium's largest digital r&d organisation imec [ARKit, Swift]

Research and teaching assistant, Nazarbayev University

Aug 2019 - Dec 2020

- Designed and developed software for dysgraphia research with EPFL CHILI Lab, it was used to record handwriting of 200 children. Results were published in **Nature** and HRI conference
- Design, collection, and cleaning of audio, video, and pictorial datasets
- Established rules for trilingual text-to-speech engine creation and data collection [tensorflow]

Computer vision intern, KazAeroSpace LLP

Feb 2019 - Apr 2019

- Delivered a satellite images segmentation engine using CNNs and image processing techniques

LEADERSHIP AND AWARDS

Team leader, Delaware Student Game

Mar 2021

Managed a team of AI students on the coding competition by delaware BeLux. Won the 3rd place for proposed industrial applications of computer vision and augmented reality [ARKit, Swift]

CTO and developer, ABC startup incubation

Oct 2020

Developed a mobile social network application for fashion industry. Supervised technical and design decisions. Our team won the competition landing ~4,700 USD funding [Flutter, NoSQL]

Presenter, International Conference on Human-Robot Interaction 2020

Mar 2020

The best demo award on the ACM/IEEE International Conference on Human-Robot Interaction in Cambridge, UK for video demonstration "CoWriting Kazakh: Learning a New Script with a Robot"

Presenter, International Conference on Robotics Technologies

Mar 2019

Won the best presentation award on the International Conference on Robotics Technologies in Beijing, China for presentation "Robot-Assisted Therapy for Children with ADHD and ASD"

SELECTED PUBLICATIONS

- Asselborn, T., Johal, W., Tleubayev, B., Zhexenova, Z., Dillenbourg, P., McBride, C., Sandygulova, A., 2021. *The transferability of handwriting skills: from the Cyrillic to the Latin alphabet*. **Nature** partner journal: science of learning, 6(1), pp.1-11
- Tleubayev, B., Zhexenova, Z., Zhakenova, A., Sandygulova, A. 2019. *Robot-assisted therapy for children with ADHD and ASD*. International Conference on Service Robotics Technologies