

SHYNGYSKHAN ABILKASSOV

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EDUCATION

Nazarbayev University, Astana

BSc in Robotics and Mechatronics, Minor in Computer Science.

August 2017 - May 2021

Overall GPA: 3.81, Top 5%

WORK EXPERIENCE

Google Summer of Code, JdeRobot

May 2019 - August 2019

Open Source developer

- Developed **indoors localization, goal navigation, item pick-and-place logic, and resting behaviour** for full scale autonomous task completion for warehouse robot.
- Improved local navigation task performance for robot in complex interior environment. Robot reaches desired destination on average **2 times faster** than previous implementation.

ALARIS Laboratory

December 2018 - September 2019

Research Assistant at Autonomous Truck development project

- Integrated ROS messaging for *LiDAR, Camera, IMU, GPS* for remote data acquisition and control of simulation truck on rospy Python package.
- Implemented data access for non-ROS environment through **sockets and Flask REST service** for visualization of on web interfaces.

Zerde National Infocommunication Holding

April 2018 - July 2018

Software Engineer Intern

- Developed user-interface for search and export of documents using Elastic Search in MongoDB database.
- Implemented user activity monitoring web service in internal portal, and designed and created both **REST service and admin interface** using *AngularJS and Java Spring*.

PROJECTS

Driver Distraction Posture Classification

Implemented a multi-modal CNN for distracted driver posture classification on merging two ResNet50 models trained on self-gathered dataset using transfer learning approach with accuracy of 92% and 89%

SearchForMe

Telegram chat-bot on Python which searches, scrapes information, constantly monitors ratings and notifies users on updates in Google, Yandex, Mail.ru, and Rambler engines.

ACHIEVEMENTS

1st place in HackNU International Hackathon 2019, BTS Digital case

2nd place in Astana Innovations Challenge, Smart Services

2nd place in HackNU 2018, ZeroToOneLabs case

Fellow recipient of **Bertelsmann Data Science Scholarship**

Completed Data Science, Machine Learning (Ng), Neural Networks and Deep Learning courses

SKILLS

Languages

Python, Java, C, C++, Node.js, React Native

Tools & Technologies

PyTorch, ROS, OpenCV, Gazebo, Keras, MATLAB, Git

Databases

NoSQL, GraphQL, Firebase