

Gaukhar Nurbek

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EDUCATION

University of Texas RGV

May, 2021

MS in Interdisciplinary Studies in Science and Technology (GPA: 3.93/4.0)

Brownsville, TX

- Relevant coursework: Statistical Computing, Design and Analysis of Algorithms, Foundations of Software Development, Statistical Methods
- Awards: Presidential Graduate Research Assistantship award, 2019-2021, 1st place for the best oral presentation, UTRGV College of Science Conference, 2020

Kazakh-British Technical University

May, 2018

BEng Information Systems (GPA: 3.5/4.0)

Almaty, Kazakhstan

- Relevant coursework: Data Science and Machine Learning, Database Design and Administration, Foundations of Web Programming, Mathematical Analysis, Object-Oriented Programming and Design, Programming Technologies, Programming Languages, Theory of Probability and Mathematical Statistics
- ABET accredited program

TECHNICAL SKILLS

Languages: Python(Pandas, NumPy, Matplotlib, Seaborn, Selenium, Beautiful soup), Matlab, C#, SQL, Bash, JavaScript, HTML

Frameworks: wav2letter, Bootstrap, .NET MVC, Entity

Developer Tools: Anaconda, Jupyter Notebook, Git, Docker, Visual Studio, X-Code, GraphQL, REST API

EXPERIENCE

University of Texas RGV

July 2021 – July 2022

Staff Research Assistant

Edinburg, TX

- Performed gravitational waves **data analysis** using **matlab, python and bash**. Supported by NSF grant.

University of Texas RGV

August 2019 – May 2021

Graduate Research Assistant

Brownsville, TX

- Improved the existing **data analysis pipeline** using **deep learning algorithms for image classification**
- Provided data analysis and data visualisation of the gravitational wave signals from supernovae models using **signal processing, matlab, python and bash**

Kazdream Technologies

May 2019 – August 2019

Data scientist

Nur-Sultan, Kazakhstan

- Trained **deep learning model** to convert human speech into text using **python, wav2letter and CUDA**.
- Cleaned and pre-processed data for training using **python, pandas, numpy**

Center for Sustainable Capital Development

August 2018 – February 2019

Data analyst

Nur-Sultan, Kazakhstan

- Built a **regression model** using **python** and **embedded** the model in a **web app** using **Flask, HTML/CSS/Bootstrap/JavaScript**
- Created web crawler using **python, selenium, beautiful soup**
- Cleaned and structured the data using **python, pandas**

CAAIC

January 2018 – February 2018

Intern iOS developer

Nur-Sultan, Kazakhstan

- Developed an **iOS app** using **Swift/GraphQL API client**

Inessoft

May 2017 – July 2017

Intern web developer

Nur-Sultan, Kazakhstan

- Created 24 **database references** and **entity data models** with **CRUD** functions using **C#/.Net MVC/Entity/SQL**
- Developed login page functionality and implemented logging to track user's activity using **C#/.Net MVC/HTML/CSS/JavaScript/SQL**

Inessoft

June 2016 – July 2016

Intern web developer

Nur-Sultan, Kazakhstan

- Implemented tax calculation function and landing page for an existing **iOS app** using **Objective-C**