

Gaukhar Nurbek

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EDUCATION

University of Texas RGV <i>PhD Physics</i>	May, 2028 Edinburg, TX
University of Texas RGV <i>MS Computer Science, GPA: 4.0/4.0</i>	May, 2024 Edinburg, TX
University of Texas RGV <i>MS in Interdisciplinary Studies in Science and Technology, GPA: 3.93/4.0</i>	May, 2021 Brownsville, TX
Kazakh-British Technical University <i>BEng Information Systems, GPA: 3.5/4.0</i>	May, 2018 Almaty, Kazakhstan

EXPERIENCE

University of Texas RGV <i>Graduate Research Assistant</i>	Edinburg, TX Aug 2023 – May 2024
<ul style="list-style-type: none">Developed and implemented advanced reinforcement learning policies for a 3D simulation locomotion model. Utilized Temporal Graph Neural Networks and various tools including Python, PyTorch, PyTorch Geometric, PyTorch Geometric Temporal, MuJoCo, and Tensorboard.Assisted in teaching courses on Deep Learning, Reinforcement Learning, and Object-Oriented Programming, providing support and guidance to over 80 students.	
Uber <i>Software Engineering Intern</i>	Sunnyvale, CA May 2023 – Aug 2023
<ul style="list-style-type: none">Developed a key feature for an internal tool serving 10-15k weekly users using Go and TypeScript.Improved user experience by delivering features on schedule and implementing comprehensive unit tests in Go.Actively participated in the design, coding, testing, and deployment phases of the feature.	
University of Texas RGV <i>Graduate Teaching Assistant</i>	Edinburg, TX Aug 2022 – May 2023
<ul style="list-style-type: none">Automated 90% of grading for a Computer Science I course using Python and Bash.	
Staff Research Assistant	July 2021 – July 2022
<ul style="list-style-type: none">Improved signal detection algorithm by 5% and conducted gravitational waves data analysis using MATLAB, C++, Python, and Bash, supported by NSF grant.	
Graduate Research Assistant	August 2019 – May 2021
<ul style="list-style-type: none">Enhanced data analysis pipeline by utilizing deep learning algorithms for image classification and signal processing using MATLAB, Python and Bash.	
Kazdream Technologies <i>Data scientist</i>	Astana, Kazakhstan May 2019 – August 2019
<ul style="list-style-type: none">Trained a deep learning model to convert human speech to text, processing 200k audio data samples using Python, Pandas, NumPy, wav2letter, Docker and CUDA.	
Center for Sustainable Capital Development <i>Data analyst</i>	Astana, Kazakhstan August 2018 – February 2019
<ul style="list-style-type: none">Built a time series regression model using Python and integrated it into a web application with Flask, HTML/CSS/Bootstrap, and JavaScript.Developed a web crawler and processed 1 million rows of data using Python, Selenium, BeautifulSoup, and SQL.	

PROJECTS

ML Interview Prep Tutor	June 2024
<ul style="list-style-type: none">Developed a web-based chat application for Machine Learning theory interview preparation. The system utilizes a customized knowledge base and is built using Python, Django, HTML, JavaScript, Langchain, and the OpenAI API.	
Expert System's Chat Bot	January 2024
<ul style="list-style-type: none">Implemented a pipeline to vectorize and embed user-specific data into chatbot responses in Kazakh and Russian using Python, Langchain, OpenAI API and Chroma.	

TECHNICAL SKILLS

Languages: Python (Pandas, NumPy, Matplotlib, Seaborn, Selenium, BeautifulSoup), Bash, MATLAB, Go, C++, SQL, TypeScript, HTML, CSS.

Developer Tools: Django, Jupyter Notebook, Git, Docker, Flask, VS Code.

Technologies/Frameworks: PyTorch, PyTorch Geometric, PyTorch Geometric Temporal, Langchain, wav2letter, CUDA, OpenAI API, Chroma, MuJoCo, Tensorboard.