

# ELIZA TAALAIBEK

## SOFTWARE ENGINEER

Houston, TX | 4158089249 | [eliza.taalaibek0@gmail.com](mailto:eliza.taalaibek0@gmail.com) | [linkedin.com/in/eliza-taalaibek](https://www.linkedin.com/in/eliza-taalaibek) | [github.com/elizataalaibekkyzy](https://github.com/elizataalaibekkyzy) | [eliza-taalaibek-portfolio.netlify.app](https://eliza-taalaibek-portfolio.netlify.app)

## EDUCATION

### RICE UNIVERSITY – Houston, USA

Aug 2024 – Dec 2025 (Expected)

- **Master's degree in computer science**, specializing in Data Science and Machine Learning. (GPA: 3.89/ 4.0)
- **Teaching Assistant** of Principles of Algorithms course.
- Top classes: **ML, AI, Deep Learning for vision and language, Data Science Tools (SQL, AWS, Apache Kafka), Design of Algorithms.**

### VISTULA UNIVERSITY – Warsaw, Poland

Oct 2018 – March 2022

- **Bachelor's degree in computer science**, specializing in Software Engineering. (GPA: 3.39 / 4.0)
- Mentor in Peer Mentoring Program (Mentored 4 students in both technical and uni. Life.)

## EXPERIENCE

### FULL STACK DEVELOPER

**Rice University - Houston, TX**

Jan 2025 – Current

- Developed the Rooms web site from the ground which improved user experience by 100% using **JavaScript, React, Python, PostgreSQL.**
- Owned the full project lifecycle from design to deployment that achieved 100% accuracy in handling the website's business logic.

### FULL STACK ENGINEER

**LoopUp LLC - San Francisco, CA**

Sep 2022 – Aug 2024

- Integrated the interface for the "Operator Connect" project, which increased revenue to \$20 million using **JavaScript and C#.**
- Wrote an alternate signer functionality for DocuSign porting, enhancing user experience and efficiency by 100% using **TypeScript, React.**
- Mentored 3 interns to develop Front-End project, achieving a 100% project completion rate.

### SOFTWARE ENGINEER INTERN

**matriq AG - St. Gallen, Switzerland**

Jun 2021 – Nov 2021

- Upgraded the front-end interface using **QT, Python, and TypeScript**, achieving a **90%** accuracy rate in functionality control.
- Optimized an internal testing tool to accelerate processes, achieving a **50%** efficiency boost.

## PROJECTS

### Facial emotions recognition

- Implemented a ML project with **Keras**, achieving 90% accuracy in classifying seven basic human emotions using neural networks.

### Critics and User-Based Movie Recommendation System Using BERT Embeddings

- Developed multiple similarity-based models (cosine, transformer, autoencoder, GNN) to recommend movies with BERT.

### Medical Image Report Generation

- Developed a multimodal AI system for lung cancer classification by integrating a CNN-based vision model (ResNet50) with a logistic regression-based NLP model.

## SKILLS

**Programming Languages:** Python, TypeScript, JavaScript, SQL, Java, C#, HTML/CSS, Git, Excel, AWS, Apache Kafka

**Frameworks:** FastAPI, React, Spring Boot, QT, SQLAlchemy, TensorFlow, Keras.

**Tools:** Git, LaTeX, PostgreSQL, MySQL, TensorFlow, Keras.

**Languages:** Fluent in English, Russian, Kyrgyz.

## AWARDS

- **1st place in Kyrgyzstan regional Math Olympiad** (~1000+ participants) 2017
- **Vistula University Rector's Scholarship Winner** 2019 - 2020  
(Awarded quarterly to top 10 students out of ~200+ applicants)

## EXTRACURRICULARS

- **Google Women in Tech mentee** Sep – Nov 2021  
One of the 30 best-selected students; Mentored by a Google Senior Engineer.
- **Leader of IT club at Vistula University** Jan 2020– May 2022