Samagan Nurdinov

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About

I am a student at North American University, Houston, Texas. I have expertise in Django, combined with Machine Learning Backend, Django (TensorFlow), and programming languages like Python, JavaScript, Java, and C++. I'm a quick learner and collaborate closely with clients to create efficient, scalable, and user-friendly solutions that solve real-world problems.

Education

North American University, BS in Computer Science — Expected Graduation: May 2026

- **GPA**: 3.85/4.0, 90% merit-based scholarship
- **Coursework:** Software Engineering, System Programming, Database System, Computer Network, Computer Organization, Introduction to CS I(Python), Introduction to CS II(Java), Data Structures, Operating Systems, Programming languages, Computer Literacy, Statistics.

Experience

Teacher Assistant, Kyrgyz State Technical University, – Bishkek, KG — Sep 2022 – Jan 2023

- Graded and reviewed more than 60 assignments in C++ every week, with comprehensive feedback to help students improve in coding and debugging skills.
- Designed and implemented hands-on lab tasks to reinforce key C++ programming concepts, improving students' practical coding abilities by 30%
- Assisted 30+ students during lab sessions, troubleshooting programming errors and answering questions to foster a deeper understanding of C++.

Library Assistant, North American University – Houston, TX — Sep 2024 – Jan 2025

- Managed and updated the library database, ensuring accurate cataloging of 10,000+ resources
- Collaborated with student organizations to plan and execute 15+ events annually, increasing library engagement by 30% among the student body
- Collected and analyzed statistical data on library usage, tracking daily entries and computer usage trends, resulting in data-driven decisions to improve facility utilization by 15%

Projects

Weather App — GitHub

- Built a Java weather app using OpenWeatherMap API to display real-time weather data in a Swing GUI, Implemented API integration, JSON parsing, and input validation.
- Tools Used: Java, Java Swing, OpenWeatherMap API

E-commerce for Arts — GitHub

- Developed a desktop calendar with globally shared and synchronized calendars, allowing users to schedule meetings with other users
- Tools Used: Python, Django, Database(SQLite), HTML, CSS, Javascript

Real-Time Chat Application — GitHub

- Built a real-time chat app with Spring Boot and WebSocket for instant messaging, designed a responsive frontend.
- Tools Used: Spring Boot, WebSocket, Lombok, HTML, CSS, JavaScript.

Rain Prediction GitHub

- Developed a rainfall prediction model using historical data. Applied Python, Pandas, NumPy, and machine learning algorithms including Linear Regression, KNN, Decision Trees, Logistic Regression, and SVM.

Stock Prediction GitHub

- Predicted stock trends using Streamlit, historical data, and Prophet for up to 4 years, with interactive charts.

Police Death Analysis GitHub

- Analyzed deaths involving police in the U.S. using data cleaning techniques and created visualizations with Plotly, including Pie, Donut, Grouped Bar Charts, and Box Plots.

Technologies

Languages: Java, C/C++, Python, SQL, JavaScript

Technologies: HTML, CSS, Django, Spring, Rest API, MySQL, Flask, Docker, Git, GitHub, CI/CD, PyTorch, TensorFlow, Keras, Scikit-learn, OpenCV, Pandas, NumPy, Matplotlib.

Awards & Achievements

- Participant International Zhautykov Olympiad in Physics
- TOP 3% - Final National Examination (2022)
- TOP 3 - National Physics Olympiad (2022) among 5000 students.
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