SAMANDAR MIRJALILOV

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Technical Skills

Languages: Python, JavaScript, SQL (PostgreSQL, MariaDB), VBA

Deployment: FastAPI, Flask, Streamlit, Flutter, Docker, Playwright, Hetzner Cloud

Data and ML: PyTorch, Pandas, Geopy, Tesseract

Tools: Git, Linux

Spoken Languages: English (Native), Russian (CEFR B1), Arabic (CEFR A2)

Experience

Warwick Manufacture Group - Automation Engineering Intern   **Jul. 2024 – Sep. 2024**
- Engineered an Excel Macro using VBA to automate an STPA step, slashing the workload from 3 weeks to 30 seconds.
- Improved analysis consistency by 10% by implementing dynamic data validation lists based on UCA types.
- Ported core VBA logic to a scalable Python script using Pandas and Openpyxl, creating a foundation for an app.

Uzum - Backend Engineer Internship   **Jul. 2022 – Sep. 2022**
The first unicorn in Central Asia with operations in fintech, e-commerce, and food delivery.
- Built a Python(Geopy, Pandas) pipeline to geocode over 5,000 client locations extracted from the MariaDB database.
- Integrated a geospatial visualisation module into the company's KPI dashboard, enabling analysis of client density.
- Halved the debt recovery timeline for over 1,000 cases by developing an automated tracking dashboard by extracting necessary data from the MariaDB database.

Open Source Contribution

DVC - **Added –exp hide-workspace command** | *Python, Git*   **Jul. 2025 - Aug. 2025**
Leading open-source MLOps platform for data versioning and experiment tracking.
- Engineered the exp hide-workspace command in Python and wrote unit tests to ensure functionality.
- Submitted changes through Pull Request #10798 and collaborated with the maintainers leading to a successful merge.
- Authored the official documentation (PR #5427) and identified three additional undocumented commands.

Projects

MNIST Digit Recognition Service | *PyTorch, Machine Learning, Streamlit, Docker*   **Jun. 2025 - Jun. 2025**
- Trained a Convolutional Neural Network(CNN) on the MNIST database, achieving over 98% accuracy in just 5 epochs.
- Setup an interactive whiteboard hosted on Hetzner CAX11 VPS with Streamlit.
- Engineered a Docker containerised PostgreSQL database to persist user submissions and results.

Automated Sorting Validation for Hacker News | *Javascript, Playwright, Automated Testing*   **Feb. 2025 - Feb. 2025**
- Built an automated Playwright script to validate the sorting of a 100 articles from Hacker News.
- Implemented pagination handling allowing the web scraper to scrape articles beyond the intial 30 on page load.
- Engineered a JSON logging system to capture article data and record any detected sorting errors.

Automated Image to Arabic Flashcard App | *Flutter, FastAPI, Python(Tesseract)*   **Jan. 2025 - Feb. 2025**
- Built a Flutter application connected to a FAST API backend from a boilerplate reducing development time by 40%.
- Achieved over 90% accuracy on OCR scans with Tesseract using minimal preprocessing.
- Integrated the OpenAI API to automatically categorize extracted text for flashcard generation.

Education

University of Warwick   **Oct. 2022 – Jul. 2025**
Bachelor of Science in Mathematics

Bexley Grammar School   **Sep. 2020 – May 2022**
IB:Mathematics HL(7), Economics HL(7), Physics HL(6), Politics SL(6)   39/45

Interests

Judo(Won Gold in London Youth Games), Basketball, Reading(Classical Lit., Sports Science), Strength Training