

SAMANDAR MIRJALILOV

✉ mirjalilovs@outlook.com 🌐 github.com/MirjalilovS 🔗 linkedin.com/in/samandar-m/

Technical Skills

Backend: Python, FastAPI, Flask, SQL (PostgreSQL, MariaDB), VBA

Frontend: JavaScript, TypeScript, Streamlit, Flutter, React, Next.js

Data and ML: PyTorch, Pandas, Geopy, Tesseract

Tools: Git, Linux, Playwright

DevOps & Cloud: Vercel, Hetzner Cloud, Docker

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.

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.

- Implemented 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

Portfolio Website - samandarmirjalilov.com | *Next.js, TailwindCSS, Vercel, Typescript* Sep. 2025 - Sep. 2025

- Developed a frontend application using Next.js, and TailwindCSS creating a reusable component-based architecture.
- Deployed the site via Vercel and configured a custom domain.

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 initial 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