

# SAMANDAR MIRJALILOV

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## Technical Skills

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

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

**Data and ML:** PyTorch, Pandas, Geopy, Tesseract

**Tools:** Git, Linux, Playwright, Gradle

**DevOps & Cloud:** Vercel, Hetzner Cloud, Docker, TeamCity, CI/CD, AWS, Azure

## Experience

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**Moneff** - Software Developer Internship

**Sep. 2025 – Dec. 2025**

*A bootstrapped fintech company with operations across the world and over £7 billion in transactions completed.*

- Engineered a new automated workflow for an AI assistant by building Spring Services that queried over 1000s of logs using trace IDs.
- Reduced a 30 minute manual workflow into a simple automated process using Java, Spring and Gradle.
- Will soon contribute to CI/CD workflows using TeamCity, Docker and various Cloud technologies such as AWS and Azure.
- Engaged in pair programming and code reviews with two senior devs to ensure adherence to team standards.

**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

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**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

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**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 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

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**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)

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## Interests

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