Mukhammaddiyor Abdulazimov

AI / ML & Full-Stack Developer · Open to internships (remote or in China)

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Summary

Third-year AI student at Harbin Engineering University (English-taught program) with 2+ years of full-stack experience on real client projects (Symfony, Laravel, Vue.js). I build AI products end to end, test them on real devices and report results honestly, limitations included.

Experience

Founder & Developer · RoadAI (own product) Sep 2026 – present · Remote

- Transfer-operations platform (MVP, pilot in preparation): FastAPI, Flutter driver app, React dashboard, PostgreSQL.
- LLM document extraction: Claude vision reads passenger data from paper vouchers with structured output; an operator reviews every extraction before it is saved.
- Traced a night-time GPS failure on a real phone to HyperOS switching off the GNSS receiver; recovery after app kills and reboots designed (emulator-verified).
- 646 automated checks. I own product, architecture, specs, code review and on-device testing; most code is written by AI coding agents (Claude Code) under my review.

Full-Stack Developer (Apprenticeship) · Kadirov.DEV Mar 2023 – Aug 2025 · Tashkent / remote

- Client and in-house web products in a team (Symfony/Laravel APIs, Vue.js, MySQL, Docker, GitLab MRs and CI); remote part-time from Sep 2024.
- Poultry farm management system (live): built the backend (Symfony, MySQL) and front-end (Vue.js, Tailwind CSS) for flock, feed, egg production and sales, with daily, monthly and yearly reports.
- Boshqar.com (live): front-end work in Vue.js on an inventory and sales system for retail businesses (web and Android).
- AstraCode (live): front-end and backend tasks on an AI-assisted web-development learning platform; certificate platform with QR verification.

Projects

CPU Inference Benchmark · PyTorch, ONNX Runtime, OpenVINO github.com/diyor-ai/cpu-inference-bench

- INT8 post-training quantization (static and dynamic) with ONNX Runtime, OpenVINO NNCF and PyTorch on CPU (i7-12650H), ResNet-18 and two BERT models; each framework's standard INT8 path.
- Measured INT8 vs FP32 speedup: 2.34–3.48× for ResNet-18 at batch 1 (top-1 change −0.6 to −0.9 pt, not significant on 1,000 images), 1.10–3.12× for BERT.
- Traced up to 48% run-to-run noise to thermal throttling, then pinned cores, fixed the clock at 2.6 GHz and added a stability rule. Profiling (torch.profiler, ONNX Runtime, OpenVINO); paired bootstrap and McNemar tests. Built with Claude Code; methodology and verification are mine.

SST Baselines · Python github.com/diyor-ai/sst-baselines

- Baselines and a reproducible evaluation for daily sea-surface temperature (NOAA OISST v2.1, two Pacific regions, 1982–2025): six baselines up to per-grid-point Ridge; split fixed in advance, test set run once with the config frozen by a git tag.
- Filled 1,194 days missing from ERDDAP from NOAA PSL; 40 tests, CI. In the test years, methods that pull toward climatology (damped persistence, Ridge) lost their validation edge, consistent with a larger warm shift (cause not proven). Built with Claude Code; methodology and verification are mine.

Gesture Control System · Python, OpenCV, MediaPipe github.com/diyor-ai/gesture-control-system

- Hand-gesture control of a computer from a regular webcam at ~30 FPS on CPU (Linux Wayland via a kernel-level virtual pointer); debugged real-hardware failures from timestamped logs; 228 automated tests run in under 2 seconds without a camera, with CI on every push.

Ames House Price Prediction · Python, scikit-learn, pandas github.com/diyor-ai/house-price-prediction

- Leakage-safe ML pipeline: nested cross-validation, selection rule fixed in advance, one final held-out test evaluation (MAE $16.4k, R^2 0.875); the worst 10 test houses account for 49% of the squared log error.

Education

Harbin Engineering University · Bachelor's degree in Artificial Intelligence Sep 2024 – Jun 2028 (expected)

- English-taught program. Coursework: Intro to AI, AI Ethics, Calculus I–II, Linear Algebra, Probability & Statistics, Discrete Math, Python, Robotics.
- Class monitor of the 2024 AI class; led Uzbekistan's national presentation at the HEU Cultural Festival 2026.

Kadirov.Dev · Full-Stack Web Development courses (Junior, Middle; certificate) Nov 2022 – Dec 2023

Skills

AI / ML	Python, PyTorch, ONNX Runtime, OpenVINO (inference, INT8 quantization, profiling), scikit-learn, pandas, NumPy, OpenCV, MediaPipe, LLM APIs (Claude, structured output)
Backend	FastAPI, Symfony, Laravel, PHP, REST APIs, PostgreSQL, MySQL, Redis
Frontend	Vue.js, React, TypeScript, Tailwind CSS, Flutter
Engineering	pytest, PHPUnit, Docker, Git, GitHub Actions, GitLab CI/CD, Linux, AI coding agents (Claude Code)
Languages	Uzbek (native), Turkish, English (professional working), Russian, Chinese (basic)