Orifkhon Kilichev

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Professional Summary

Backend-focused Full-Stack Engineer building production-grade automation systems, Telegram bots, and AI-powered media pipelines. Experience designing REST APIs, async processing pipelines, relational schemas, and deploying reliable services on VPS and cloud platforms. Strong emphasis on reliability, maintainability, and clean architecture.

Projects

FormForge – Full-Stack Form Builder ↗, *React, Node.js, Express, MySQL, Sequelize*
- Designed normalized relational schema for templates, forms, tags, and likes
- Implemented ranking logic avoiding JOIN + LIMIT aggregation pitfalls
- Built JWT authentication + role-based RBAC system
- Deployed frontend on Vercel and backend on Railway

Transcripto – AI Media Processing Pipeline ↗, *Python, Flask, faster-whisper, PyAnnote, ReportLab*
- Implemented local Whisper inference pipeline for audio/video transcription
- Built async job system to handle long-running media tasks
- Integrated speaker diarization (embedding + clustering pipeline)
- Generated structured PDF reports programmatically
- Deployed full-stack application on Railway
- Designed system for real-world media processing workloads

USPS Live Route Alert Bot (Automation System) ↗, *Python, Telethon, SQLite, Docker, VPS*
- Designed and implemented real-time route monitoring system deployed on VPS for dispatcher use
- Implemented user-defined filtering logic for route matching
- Containerized application with Docker for isolated deployment
- Designed private access control and persistent storage

Prayer Time Telegram Bot (Production System) ↗, *Python, aiogram, APScheduler, SQLAlchemy, systemd, VPS*
- Designed timezone-aware scheduling system with per-user async jobs
- Implemented persistent storage using async SQLAlchemy
- Deployed as a systemd-managed Linux service with crash recovery
- Ensured auto-rescheduling logic to prevent duplicate jobs
- Maintained 24/7 uptime on production VPS

Skills

Backend
- Python (async, scheduling), Node.js / Express, REST API design

Infrastructure
- Docker, VPS deployment (Hetzner), systemd, Railway, Vercel

Frontend
- React, Tailwind, Bootstrap

Databases
- PostgreSQL, MySQL, SQLite, SQLAlchemy, Sequelize

AI / Processing
- faster-whisper, PyAnnote, Async job systems

Education

2020/08 – 2024/05   **Bachelor's Degree / Computer Science,** *Pennsylvania State University* (*GPA: 3.36*)