Normurodov Dilshod

Male, 25 years, born on 14 May 2001

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github.com: https://github.com/dilshod1405

Reside in: Tashkent
Citizenship: Uzbekistan
Ready to relocate, ready for business trips

Desired position and salary

Software Engineer

Specializations:
— Programmer, developer
Employment type: full time, part time, project work/one-time assignment, work placement
Work format: hybrid, at the employer's location, remote, remote
Desired travel time to work: any

Work experience — 3 years 5 months

December 2025 — March 2026
4 months

Nazar Education Learning Center

Tashkent, www.instagram.com/nazar_education_lc
Educational Institutions
• Research, Scientific, Academic Activity
• Teaching Foreign Languages

Software Engineer

NAZAR EDUCATION — Learning Center Management Platform (Full-Stack)
Developed a learning center management platform designed to automate administrative processes for educational institutions, including student management, group scheduling, payments, attendance tracking, and academic reporting.

Backend (nedu-api)

Implemented the backend using FastAPI, PostgreSQL, and SQLAlchemy, providing a high-performance REST API for managing students, groups, invoices, attendance records, and exams. The system supports secure authentication with JWT and structured API endpoints for all administrative operations.
Automated operational processes using Celery background workers and scheduled tasks, including monthly invoice generation, exam result notifications, and automatic archiving of students when course periods end.
The platform also includes dashboard analytics endpoints that provide real-time statistics such as student counts, revenue metrics, unpaid invoices, and operational summaries.

Admin Interface (nedu-admin)

Developed an administrative interface using React, TypeScript, Vite, and Ant Design, enabling staff to manage students, groups, invoices, and attendance through a modern and responsive UI.

The interface provides:

Advanced filtering and search for students and groups
Bulk operations for administrative efficiency
CSV export of data tables for reporting
Real-time dashboard metrics with WebSocket updates
Visual analytics for revenue and operational data

System Architecture

The platform follows a modular architecture where the React-based admin interface communicates with a FastAPI backend. Background processing is handled via Celery workers connected to Redis, ensuring reliable execution of asynchronous tasks and scheduled operations.

Tech Stack

Python, FastAPI, SQLAlchemy, PostgreSQL, Redis, Celery, React, TypeScript, Ant Design, WebSocket,

July 2025 — March 2026
9 months

WATCHDOG

IT, System Integration, Internet

- Systems integration, enterprise process automation, and IT consulting

Software engineer

Real Estate CRM & Sales Platform Development

Developed and maintained custom CRM and sales platforms for a Dubai-based real estate agency using Python (Django, FastAPI) and React/Next.js. The systems were designed to manage property listings, real estate projects, client interactions, and sales workflows for internal teams.
Implemented integrations with external real estate services and APIs, including Bitrix24 CRM and PropertyFinder.ae, enabling automated synchronization of property data and streamlined sales operations.
Designed and developed role-based user interfaces for different departments (sales agents, managers, administrators), ensuring responsive design, high usability, and efficient workflow management.
Integrated marketing and analytics tools including Google Analytics, Google Tag Manager, Google Ads, and Microsoft Clarity to track user behavior, optimize marketing campaigns, and support targeted advertising strategies for property sales.
Worked directly with real clients and business stakeholders, delivering production-ready systems used for managing real estate projects and generating qualified leads.

Project links:
mhp.ae
crm.mhp.ae
imza.ae
waterfront-villa.mhp.ae

November 2025 — February 2026
4 months

BIMUZ

Educational Institutions

- Training Companies

Software Engineer

BIMUZ — Education Management Platform (Full-Stack)

Developed a comprehensive education management platform for training centers that centralizes operations such as employee management, student lifecycle, group scheduling, attendance tracking, payments, and financial reporting.

Backend (bimuz-api)

Implemented a scalable backend using Django REST Framework, PostgreSQL, and Redis, providing a secure API layer with JWT authentication and role-based access control. The system manages students, groups, invoices, and attendance records while enforcing all business logic on the server side. Integrated payment workflows with Multicard, including payment link generation and webhook-based invoice status updates. Implemented financial reporting features including mentor revenue calculations and monthly salary tracking. Background tasks and scheduled processes are handled using Celery.

Admin Dashboard (bimuz-dashboard)

Built a role-based admin dashboard using React, TypeScript, Vite, and Tailwind CSS for internal staff management. The dashboard allows administrators to manage employees, students, and groups, monitor attendance records, and view financial reports. Access control follows the same backend RBAC hierarchy to ensure secure operations.

Telegram Bot (bimuz-bot)

Developed a Telegram bot interface using Python (aiogram) to provide a lightweight operational tool for staff. The bot connects to the backend API and allows authenticated users to view students and groups, manage attendance records, and access payment information directly from Telegram.

System Architecture

The platform follows a multi-service architecture where the dashboard and bot act as client interfaces while the backend API handles authentication, permissions, and business logic. Data is stored in PostgreSQL with Redis used for caching and background task coordination.

Tech Stack

Python, Django, Django REST Framework, React, TypeScript, PostgreSQL, Redis, Celery, Docker, Telegram Bot API

Project links:

bimuz.uz
xodim.bimuz.uz

Telegram: @bim_uz_bot

January 2025 — December 2025
1 year

Individual Entrepreneur “NORMURODOV DILSHOD ANVAROVICH”

Software Engineer

Edu NeoSoft — Online Education Platform (Full-Stack)

Developed a scalable online education platform for selling and streaming professional courses, similar to a localized Udemy-style marketplace. The platform supports course creation, student enrollment, secure video delivery, mentor revenue tracking, and integrated payment processing.

Backend (edu-neosoft-api)

Implemented the backend using Django and Django REST Framework with PostgreSQL as the primary database and Redis for caching and background task processing. Asynchronous operations such as notifications, contract generation, and heavy platform tasks are handled using Celery workers and scheduled jobs.

The backend provides APIs for course management, student enrollment, lesson tracking, quizzes, mentor revenue management, and payment processing. The system also supports multi-role access control for students, mentors, and administrators.
Integrated multiple Uzbekistan payment gateways including Click, Payme, Uzum, and Multicard for course purchases and transaction management.

Secure Video Streaming

Implemented protected video delivery using VdoCipher, enabling encrypted streaming with dynamic watermarking and playback protection to prevent unauthorized redistribution of paid educational content.

Real-Time Chat Service (Microservice)

Developed a separate real-time messaging microservice in Go using WebSocket and MongoDB to enable mentor–student communication within course lessons. The service integrates with the Django backend for authentication and lesson validation while maintaining conversation isolation per lesson.

Frontend Applications

Built the user interfaces using Next.js and TypeScript, including separate interfaces for students and mentors. The platform provides dashboards for course access, learning progress tracking, mentor earnings management, and course administration.

Infrastructure & Deployment

The system is containerized using Docker and Docker Compose and deployed using GitLab CI/CD pipelines on cloud infrastructure. This setup enables automated builds, consistent environments, and scalable deployment.

Tech Stack

Python, Django, Django REST Framework, PostgreSQL, Redis, Celery, Go, WebSocket, MongoDB, Next.js, TypeScript, Docker, GitLab CI/CD

Project links:

https://github.com/dilshod1405/neosoft-api
https://github.com/dilshod1405/neosoft-chat
https://github.com/dilshod1405/neosoft-ui

December 2024 — May 2025
6 months

Joint Stock Company "Uzbekistan Railways" Bukhara Wagon Depot

vchdbuxoro.uz

Full-stack developer

Project 1: Helmet Detection System for Workplace Safety Monitoring

Developed an AI-powered video monitoring system designed to enforce workplace safety regulations by detecting employees who are not wearing protective helmets in real-time camera streams.
The system connects to IP cameras and processes video frames using computer vision models to detect people and safety helmets. When a violation is detected, the platform captures the image, identifies the employee through facial recognition, and records the incident for monitoring and reporting purposes.

Key capabilities include:

Real-time person and helmet detection using YOLOv8
Face recognition of employees based on stored photo embeddings
Automated incident logging with timestamp, camera location, and employee information
Synchronization of employee data and images from an external API
Storage of detection events and metadata in PostgreSQL
Containerized deployment using Docker for scalable processing
The system is designed for industrial environments to help companies monitor safety compliance and maintain structured records of workplace incidents.

Tech Stack:
Python, FastAPI, YOLOv8, DeepFace, OpenCV, PostgreSQL, Redis, Docker

GitHub:
https://github.com/dilshod1405/helmet-detector

Project 2: Employee Exit Monitoring and Turnstile Integration

Developed a monitoring service that tracks employee exit events from workplace facilities by integrating with physical turnstile systems connected to the external platform vchd-7.uz.
The service analyzes access control data to identify cases where employees leave the workplace earlier than their scheduled working time. When such events occur, the system automatically sends structured violation data to 1C via API for further processing and reporting within the company's internal management system.
The solution enables management teams to monitor work discipline and receive timely notifications about attendance policy violations.

Key features include:

Integration with external turnstile access control systems
Monitoring of employee entry and exit timestamps
Detection of early exit violations
Automatic synchronization of violation data with 1C accounting system
API-based integration with external enterprise systems
Reliable background processing and logging

Tech Stack:
Python, FastAPI, PostgreSQL, Redis, REST API integrations

November 2020 — November 2022
2 years 1 month

Agency for External Labor Migration of the Republic of Uzbekistan

xorijdaish.uz

Government Organizations

- Governmental Organizations

Backend developer

Started my professional career in IT as a backend developer, focusing on building a strong foundation in Python backend development.
Learned and applied core concepts of Django and Django REST Framework, including API development, authentication, and basic role-based access control.
Worked with PostgreSQL for data modeling and CRUD operations.
Gained hands-on experience with RESTful APIs, request/response handling, and backend architecture fundamentals.
Studied and practiced Git-based workflows, basic Docker usage, and deployment concepts on VPS servers.
Collaborated with senior developers, gradually improving code quality, debugging skills, and understanding of real-world backend systems.

xorijdaish.uz, migration.uz

Education

Bachelor

2024
Bachelor

Tashkent University of Architecture and Civil Engineering
Architect

Professional development, courses

2023

Python Backend Development
Udemy.com, Python Backend

2022

Python Backend Development
PDP Academy, Python Backend Programming

Electronic certificates

2022

Python Backend Development

Skills

Languages

Uzbek — Native
English — B2 — Upper Intermediate
Korean — B1 — Intermediate
Russian — B2 — Upper Intermediate

Skills

Python | Django Rest Framework | FastAPI | Celery | PostgreSQL | Redis | Docker | CI/CD | MongoDB | SQL | RabbitMQ | Nginx | Gitlab | UML

Driving experience

Driver's license category B

Further information

About me

Backend developer with strong experience in Python, Django, and FastAPI, specializing in building scalable backend systems and high-performance web services. Experienced in designing and implementing REST APIs, microservice architectures, and production-ready backend platforms.

Skilled in working with PostgreSQL and MongoDB for data storage and Redis for caching, background processing, and queue-based workflows. Experienced in developing distributed services and integrating external APIs.

Proficient in containerization and deployment workflows, including Docker, Docker Compose, CI/CD pipelines, and VPS-based production environments.