

Experience

Software Engineer, akeon GmbH

Sep 2024 - June 2025

Recorder App

- Implemented FFmpeg audio processing backend converting WebM to MP3 with auto-cleanup.
- Built a multi-token auth system with SHA-256 hashing & SameSite cookies with device-based session expiry.
- Developed a MIME-based email system for audio and text attachments with SMTP auth.

LMS (Learning Management System for CBZ)

- Developed a feature to register course participants, including form validation and ACF integration.
- Created a course statistics module to track user engagement and visualize performance data.
- Developed a dynamic search functionality for students and courses, enabling real-time filtering.
- Implemented a student assignment system that checks student existence before enrollment or removal.

Education

42 Berlin (Coding School), C language

Feb 2023 - Nov 2023

- Libft: Coded 42 functions in C that work the same as the original ones.
- get_next_line: Reads the text from a file descriptor line by line until the end.
- ft_printf: A function that behaves the same as "printf" in C.

Riga Technical University, BSc. Economics

Sep 2019 - Jun 2022

- GPA 6.7/10, Winner of 2 Erasmus+ scholarships for studies at:
- **Universidade do Minho**: Predictive Data Analysis, Power BI
- **Istanbul Technical University**: Fundamentals in Python

Feb 2021 - Jun 2021

Oct 2021 - Feb 2022

Projects

Essential Words (essential-words.uz)

- Built an interactive online platform to learn German and English words.
- Integrated TTS for British and American pronunciation, caching audio with AWS S3 for loading efficiency.
- Developed backend with Django to handle question storage and retrieval from database.
- Created database with MySQL to efficiently store and retrieve over 200 vocabulary arrays.
- Implemented IndexedDB to improve efficiency by caching the data.

Tech Stack: Django, MySQL, AWS S3, IndexedDB, JavaScript (TTS API)

Extract Links (Real-Time Web Crawler)

- Developed a Flask-based web crawler that extracts links from websites in real time.
- Implemented Server-Sent Events (SSE) to stream discovered links with status code live to the frontend.
- Developed a dynamic frontend with a progress bar and live updates for enhanced UX.

Tech Stack: Flask, BeautifulSoup/Requests, SSE, JavaScript, HTML/CSS

Mini Tournament System

- Developed a FastAPI tournament management system with PostgreSQL, Docker, and async SQLAlchemy
- Implemented player registration, capacity limits, and duplicate prevention.

Tech Stack: FastAPI, PostgreSQL, Docker, Async SQLAlchemy, Alembic

Skills

- **Languages:** Python (Django), PHP, JavaScript (jQuery/AJAX), C, HTML/CSS
- **Technologies:** MySQL, PostgreSQL, Git / GitHub / GitLab, Linux / Ubuntu, Nginx, AWS
- **Software Practices:** Algorithms & Data Structures, OOP, MVC, IndexedDB (caching)

Languages

- Uzbek: Native English: C1 German: B2 Turkish: B2 Russian: C1