

Andrii H.

Backend Developer / AI/ML Engineer

Summary of Qualifications

Results-driven Back-End and AI Developer with 3 years of experience in designing high-performance systems, AI-driven automation, and social media content solutions. Proficient in Python, FastAPI, Django, and modern AI/ML frameworks including OpenAI (Whisper, ChatGPT), LangChain, and PyTorch. Skilled in developing scalable back-end architectures, integrating AI-powered features, and managing database systems (MySQL, PostgreSQL, Redis) for both web and desktop applications. Experienced in CI/CD, testing, and cloud deployment (AWS, Hetzner, OVH) with a strong focus on performance, maintainability, and code quality. Successfully delivered AI-powered projects for social media automation, video localization, and intelligent web page generation, improving efficiency and user engagement across platforms such as TikTok, Instagram Reels, YouTube, and YouTube Shorts.

Skills

Programming Languages/Technologies

- Software Architecture Design/Reverse Engineering/ Design Patterns
- Technical Documentation/Proposals
- XML/JSON/YAML
- Python
- SQL
- WebSocket
- C

AI/ML Tools

- OpenAI (Whisper, ChatGPT)
- OpenCV
- Prompt Engineering
- Content Summarization
- HeyGen
- LangChain, LangSmith
- ElevenLabs
- Stable Diffusion
- PyTorch
- Transformers
- Scikit-learn
- RAG
- AI Agents
- Groq

RDBMS

- MySQL
- PostgreSQL
- SQLite
- Alembic

NoSQL

- Redis

Frameworks/Libraries

- Fast API
- Django
- Flask
- SQLAlchemy
- Boto3
- bs4
- Numpy/Pandas
- Matplotlib
- AIOHTTP
- Selenium
- ffmpeg / MoviePy

Cloud Providers

- AWS
- Hetzner
- OVH

Development Tools

- Lottie
- Local

Virtualization Tools

- Docker

Testing Tools

- Postman
- Pytest
- Unittest, Mock
- Sentry
- Prometheus
- Grafana

CI/CD

- GitHub CI/CD
- GitHub Actions

Versions Control

- Git
- GitHub

Experience

Project Description:

AI Social media automatization

The project focused on automating the creation of polished videos and shorts for social media platforms, including TikTok, Instagram Reels, YouTube, and YouTube Shorts. Users provide a raw video along with a text script containing chapter markers, blooper sections, camera changes, and other editing cues. The system automatically cleans and processes the video, then translates it into specified languages using AI-based speech-to-text and text-to-speech technologies. The final output is fully edited, localized videos ready for publishing across multiple social media channels.

Domain: Marketing | Social Media

Involvement Duration: 2 years

Project Role: Back-End/AI Developer

- Responsibilities:**
- Developed back-end systems and designed app and database architecture;
 - Implemented back-end logic for video uploading and processing;
 - Integrated OpenAI APIs and optimized prompts (Prompt Engineering);
 - Managed social media content, including automated responses;
 - Conducted testing and implemented error handling mechanisms.

Project Team Size: 4-6 team members

Tools & Technologies: Python, FastAPI, SQLAlchemy, ffmpeg, MoviePy, Pydantic, OpenAI, Anthropic API, Nginx, Alembic, Redis, Celery, Prometheus, Poetry, Hetzner, Docker.

Project Description:

AI-based website page builder

Desktop application for generating web pages using artificial intelligence technologies. Automatically creates responsive, visually appealing pages based on user-defined settings and preferences. Designed to simplify website creation without the need for coding. Cutting-edge SEO platform developed to enhance online visibility for businesses. Features real-time analytics, advanced optimization tools, and a user-friendly interface. Provides actionable insights to improve search engine performance.

Domains: Software development | AI | SEO

Involvement Duration: 1 year

Project Role: Backend Engineer

- Responsibilities:**
- Developed and implemented high-performance back-end architecture;
 - Developed and maintained a robust admin panel;
 - Contributed to UI/UX improvements across the product;
 - Refactored legacy code to improve maintainability, performance, and code quality;
 - Managed and optimized CI/CD pipelines for continuous integration and delivery;
 - Created and maintained technical documentation;
 - Designed efficient back-end workflows;
 - Conducted code reviews to ensure high code quality.

Project Team Size: 15 team members

Tools & Technologies: Python, FastAPI, OpenAI, Langchain, Stripe, PostgreSQL, Celery, Redis, Auth0, OVH, AWS, Hetzner, Cloudflare, YoutubeAPI, Docker.

Education

Bachelor's degree

National University "Lviv Polytechnic"
Computer Science

Languages

English: Upper-Intermediate

Ukrainian: Native

Russian: Native