Mark Z.
Back-End Developer

Summary of Qualifications	I'm a Back-End software developer with 4 years of proven professional experience. Have an understanding of software engineering and architecture, OOP principles, numerical methods, discrete math, DBMS, software design, and web programming.

The main technologies I have used in my previous projects were Python, SQL, NoSQL, and AWS.

My personal qualities – are responsibility, reliability, and trust, the ability to work in a team and individually, attention to details, and constant learning of new things. My mind is always open. |

Skills

Programming Languages/Technologies

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

RDBMS

- PostgreSQL
- SQLite
- MSSQL

NoSQL

- Neo4j
- Redis

Virtualization Tools

- Docker

Methodologies

- Agile, Scrum, Kanban
- Pair Programming
- Waterfall

Operating Systems

- MacOS

Message broker

- AWS SQS

Frameworks/Libraries

- FastAPI
- Django/DRF/DjangoORM
- SQLAlchemy
- Numpy/Pandas
- bs4
- boto3
- Celery
- Elasticsearch
- Alembic
- Requests
- AIOHTTP
- Langfuse
- Presidio
- Minio
- Docling
- Gotenberg

Application/Web Servers

- Nginx
- Uvicorn/Gunicorn

Cloud Providers

- AWS

Development Tools

- PyCharm

Testing Tools

- Postman
- Pytest
- Unitest, Mock

CI/CD

- GitHub CI/CD
- GitHub Actions

Versions Control

- Git
- GitLab
- GitHub

Experience

RAG application

Project Description: The application which is built on AI-powered approach that enhances text generation by retrieving relevant data from external sources before generating responses. Instead of relying solely on a language model's pre-trained knowledge, RAG dynamically pulls real-time information, improving accuracy and relevance.

Domain: AI & ML

Involvement Duration: 1 year

Project Role: Back-End Developer

Responsibilities:
- Back-End development;
- Implementing new BE features;
- Refactoring existing back-end code;
- API integrations;
- Working with vector database (testing and configuring indexing process);
- File processing (split documents into chunks, extract tables, images, get text descriptions of sources, store Langchain documents in vector DB);
- Adopting event sourcing for document processing;
- Add metrics (Langfuse);
- Fixing bugs;
- Unit testing;
- Code review.

Project Team Size: 10-13 team members

Tools & Technologies: Python, FastApi, SQLmodel, Langfuse (GPT, Azure, Bedrock, etc), Anonymizers (Presidio), Minio, Docling, Weaviate, Gotenberg, Flowise, Docker Compose, Docker.

European information page

Project Description: Infocheck is information page where a person can find all the necessary information about a particular European company or the person who manages it. The information page has about 15 million pages.

Domains: Web development

Involvement Duration: 1.5 years

Project Role: Back-End Developer

Responsibilities:
- Back-end development;
- Improve system architecture;
- Code base refactoring;
- Implementing new features;
- API integrations;
- Fixing bugs;
- Code review.

Project Team Size: 3-5 team members

Tools & Technologies: Python, FastAPI, Jinja2, Weasyprint, Asyncio, PostgreSQL, Aiohttp, Elasticsearch, Docker.

AI-Security Platform

Project Description: A tool for finding scammers in the blockchain empowers security and risk teams to automatically detect and respond to attacks in real time. The software is searching for hackers or attacks in the blockchain using ML algorithms.

Domains: AI & Machine Learning

Involvement Duration: 1.5 years

Project Role: Back End Developer

Responsibilities:
- Python Back-End Development;
- Preparing technical specification;

	- Code development; - Development build and deployment scripts; - Fixing bugs; - Unit testing; - Code review. - DB structure optimization.
Project Team Size:	7-10 team members
Tools & Technologies:	Python, FastAPI, Neo4j, Redis, PostgreSQL, Alembic, SQLAlchemy, Pandas, boto3, Websockets, AWS, Docker.

Certificates		
	FastAPI Masterclass Udemy	Udemy
	Python Course FoxmindEd	foxminded
	Build REST-APIs with DRF Udemy	Udemy
	Python Django Web Course Udemy	Udemy
	Python Immersion Coursera	coursera
	AWS Cloud Practitioner AWS	aws certified Cloud Practitioner FOUNDATIONAL
	Python Basics Udemy	Udemy

Education	
	Bachelor's Degree in Computer Science Lublin university of technology

Languages	
	English: Advanced **Ukrainian:** Native