

Bohdan K.

Middle Back-End Developer/ DevOps Engineer

SUMMARY

- Back-End Developer and DevOps Engineer with 4.5 years of experience in designing and developing scalable backend systems using Python (Django, DRF, FastAPI) and deploying on AWS with Docker, Kubernetes, and Helm.
- Proficient in implementing secure, role-based access control and optimizing database schemas across RDBMS (PostgreSQL, MySQL) and NoSQL (Elasticsearch, Redis) environments.
- Experienced in Agile methodologies, test-driven development, and applying design patterns (Factory, Strategy) to maintain clean, modular codebases in healthcare and government domains.

TECHNICAL SKILLS

Main Technical Skills	Python (4 yr.), Django REST framework (3 yr.), FastAPI, Docker (3 yr.), AWS (3 yr.)
Programming Languages	Python (4 yr.)
Python Frameworks	Django REST framework (3 yr.), FastAPI
AI & Machine Learning	LangGraph (1 yr.)
Python Libraries and Tools	pytest
Databases & Management Systems / ORM	AWS ElasticSearch (1 yr.), MySQL (1 yr.), PostgreSQL (3 yr.), Redis, SQL
Cloud Platforms, Services & Computing	AWS (3 yr.)
Amazon Web Services	AWS Boto3 (1 yr.), AWS ElasticSearch (1 yr.)
Methodologies, Paradigms and Patterns	Agile, FDD, Kanban, OOP, Scrum, TDD
Version Control	BitBucket, Git, Github Actions (1 yr.)
Message/Queue/Task Brokers	Celery (1 yr.)
Virtualization, Containers and Orchestration	Docker (3 yr.), Docker Compose (2 yr.), Kubernetes (1 yr.)
SDK / API and Integrations	FastAPI, GraphQL (1 yr.)
	GitLab CI, Helm (1 yr.), Jenkins (1 yr.)



Deployment, CI/CD & Administration	
QA, Test Automation, Security	Mock, Postman, pytest, Unit Testing
Web/App Servers, Middleware	Nginx
Logging and Monitoring	Prometheus (1 yr.)

WORK EXPERIENCE

Python Back-End Developer, DevOps Engineer (AI-Powered Service for Automated Medical Form Completion)

Duration: 1 year, 8 months

Summary:

- Development of an AI service for automatic completion of medical documents prior to a doctor's appointment
- The system processes patient medical records and pre-visit intake forms using advanced natural language processing models to extract relevant answers, improving efficiency and accuracy in medical documentation

Responsibilities:

- Developed back-end functionality;
- Integrated AI service into a microservice architecture;
- Implemented document management features including uploading, parsing, editing, and exporting various file types;
- Designed and optimized AI prompts for NLP models;
- Applied design patterns to ensure clean architecture and maintainability;
- Implemented unit tests.

Technologies: Python, Django, LangGraph, PostgreSQL, AWS, Jenkins

Back-End Developer, DevOps Engineer (Clinical Trial Management & Patient Treatment Allocation System)

Duration: 1 year, 3 months

Summary:

- Development of a CRM-based platform for managing patients in clinical trials and automating treatment allocation
- The system manages patient records, trial enrollment, and assigns treatments based on clinical trial protocols ensuring compliance and traceability

Responsibilities:

- Developed back-end core system modules;
- Designed and implemented services for patient management, trial enrollment, and treatment allocation;
- Implemented randomization logic for patient group assignment;
- Developed REST APIs for integration with CRM modules and external services;
- Designed and optimized database schemas;



- Implemented role-based access control and secure data handling;
- Wrote unit tests and participated in code reviews.

Technologies: Python, Django, DRF, MySQL, AWS, boto3, Docker, Docker Compose, Kubernetes, Helm, Prometheus, Grafana, GitHub CI/CD

Python Back-End Developer (Multiple Projects in Outsource Company)

Duration: 1 year, 6 months

Summary:

- Provided back-end development services for various government and commercial customers including a national employment platform and a catalog of professions
- The projects involved upgrading legacy systems and integrating new technologies to improve functionality and user experience

Responsibilities:

- Developed code and upgraded existing codebase to latest Django version;
- Integrated Elasticsearch engine;
- Developed REST APIs and added multi-language support;
- Created customized Django admin panels;
- Integrated third-party APIs;
- Provided product support and maintained documentation;
- Optimized database structure.

Technologies: Python, Django, DRF, Django Haystack, GraphQL, Graphene Django, Django Grappelli, Django S3direct, PostgreSQL, Elasticsearch, Celery, Docker, Docker Compose, AWS (S3, ECR, ECS, EC2)

EDUCATION

- **National Aviation University**
Bachelor's degree in Computer Software Engineering

CERTIFICATION

- **Python Advanced EPAM University, Kyiv**

