

Veronika B.

AI/ML Engineer /
Chatbot Developer

Summary of Qualifications	AI/ML Engineer and Back-End Developer with 3 years of experience designing scalable data-driven systems, modular multi-agent platforms, and LLM-powered conversational agents and chatbots. Proficient in building RESTful APIs with FastAPI and Pydantic, integrating SQL/NoSQL databases, and implementing asynchronous, production-grade back-end architectures. Skilled in machine learning, prompt engineering, and deploying solutions on AWS/GCP using Docker and CI/CD pipelines.
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Skills	Programming Languages/Technologies <ul style="list-style-type: none">SaaS/RIA Research & DevelopmentAsynchronous ProgrammingTechnical Documentation/Architecture ReportsXML/JSON/YAMLPython RDBMS <ul style="list-style-type: none">MySQLPostgreSQLAlembic NoSQL <ul style="list-style-type: none">RedisAWS DynamoDB Virtualization Tools <ul style="list-style-type: none">Docker / Docker Compose Methodologies <ul style="list-style-type: none">Agile, Scrum, KanbanPair Programming Operating Systems <ul style="list-style-type: none">Microsoft WindowsDebian/Ubuntu/ Arch/Linux CI/CD <ul style="list-style-type: none">GitHub CI/CDGitHub Actions Versions Control <ul style="list-style-type: none">GitGitHubGitLab Frameworks/Libraries <ul style="list-style-type: none">FastAPIWebsocketsSQLAlchemyNumpy/PandasRequestsAiohttpMatplotlibLangChainLangGraphLlamaIndexScikit-LearnNLTK, spaCy, stanzaWhisperFaster WhisperXGBoost, LightGBMtransformers, PyTorch, TRLMCP Server ConnectorsElevenLabsStarlette Cloud Providers <ul style="list-style-type: none">AWSGCP Development Tools <ul style="list-style-type: none">Visual StudioPyCharm Testing Tools <ul style="list-style-type: none">PostmanPytestUnittest, Mock
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Experience	
Project Description:	AI-Powered Modular Workflow System Designed and implemented a modular multi-agent workflow system capable of executing complex pipelines either through predefined plans or dynamic orchestration by an agent controller. Integrated the MCP library with server-side connectors for databases, file storages and external APIs, enabling agents to retrieve, store, and process data autonomously.

Involvement Duration:	1.5 years
Project Role:	AI & ML Engineer Back-End Developer
Responsibilities:	<ul style="list-style-type: none"> Designed and implemented a multi-agent orchestration system supporting modular workflows; Integrated the MCP library with server-side connectors; Developed API endpoints and controller logic using FastAPI with Pydantic models for data validation and seamless orchestration; Connected agents to PostgreSQL and S3 for persistent storage and bespoke data scrapper for data enrichment; Integrated websockets for real-time agent action observability.
Project Team Size:	3-5 team members
Tools & Technologies:	LlamaIndex, OpenAI, MCP, FastAPI, Websockets, Postgres, Pydantic, Docker.
Project Description:	Mental health chatbot Chatbot is designed to help people with their mental problems. It consists of well-trained LLM model that is totally secure. The bot can interact with users verbally and by text messages in a real time. It has memory with previous conversations. It can simulate natural conversation and offer guided therapeutic exercises.
Domain:	AI & ML Mental health
Involvement Duration:	1 year
Project Role:	AI & ML Engineer Chatbot Developer
Responsibilities:	<ul style="list-style-type: none"> Back-end development; Prompt engineering; Development of full-cycle streaming voice agent (speech-to-text, LLM, text-to-speech); Fine-tuning LLM model; Attach multi-layered memory to the LLM (buffer, summary, user profile).
Project Team Size:	3-4 team members
Tools & Technologies:	Python, FastAPI, Whisper, ElevenLabs, Llama, Langchain, AWS Bedrock, AWS Sagemaker, AWS DynamoDB, PostgreSQL, Docker.
Project Description:	AI system for automating the design processes and development of design documentation
Domains:	AI & Machine Learning
Involvement Durations:	0.5 years
Project Role:	Data Scientist ML Engineer
Responsibilities:	<ul style="list-style-type: none"> Input data analysis; Dataset creation; Feature analysis; ML architecture (model selection, tuning hyperparameters); Development of strict rules for validation and postprocessing.
Project Team Size:	1-2 team members
Tools & Technologies:	Pandas, Data analysis, sklearn, XGBoost.

Certificates

Machine Learning

Projector Institute |



Grammarly CompLing Summer School
Grammarly



Education	Bachelor's degree in Computational Linguistics Taras Shevchenko National University of Kyiv
Languages	English – Advanced Ukrainian – Native