



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.	
Skills	<div>Programming Languages/Technologies</div> <ul style="list-style-type: none">SaaS/RIA Research & DevelopmentAsynchronous ProgrammingTechnical Documentation/Architecture ReportsXML/JSON/YAMLPython <div>RDBMS</div> <ul style="list-style-type: none">MySQLPostgreSQLAlembic <div>NoSQL</div> <ul style="list-style-type: none">RedisAWS DynamoDB <div>Virtualization Tools</div> <ul style="list-style-type: none">Docker / Docker Compose <div>Methodologies</div> <ul style="list-style-type: none">Agile, Scrum, KanbanPair Programming <div>Operating Systems</div> <ul style="list-style-type: none">Microsoft WindowsDebian/Ubuntu/ Arch/Linux <div>CI/CD</div> <ul style="list-style-type: none">GitHub CI/CDGitHub Actions <div>Versions Control</div> <ul style="list-style-type: none">GitGitHubGitLab	<div>Frameworks/Libraries</div> <ul style="list-style-type: none">FastAPIWebsocketsSQLAlchemyNumpy/PandasRequestsAiohttpMatplotlibLangChainLangGraphLlamaIndexScikit-LearnNLTK, spaCy, stanzaWhisperFaster WhisperXGBoost, LightGBMtransformers, PyTorch, TRLMCP Server ConnectorsElevenLabsStarlette <div>Cloud Providers</div> <ul style="list-style-type: none">AWSGCP <div>Development Tools</div> <ul style="list-style-type: none">Visual StudioPyCharm <div>Testing Tools</div> <ul style="list-style-type: none">PostmanPytestUnittest, Mock
Experience		
	<div>AI-Powered Modular Workflow System</div> <div>Project Description:</div> <div>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.</div> <div>Domain:</div> <div>AI & ML Automation</div>	

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:	<p>Mental health chatbot</p> <p>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.</p>
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:	<p>AI system for automating the design processes and development of design documentation</p> <p>Develop a machine learning model capable of building a 3D assembly from a list of parts.</p>
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	<p>Machine Learning Projector Institute </p> 
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	Grammarly Compling Summer School Grammarly	
Education	Bachelor's degree in Computational Linguistics Taras Shevchenko National University of Kyiv	
Languages	English – Advanced Ukrainian – Native	