

Summary of Qualifications

With over 15 years of experience in software development, I manage the entire lifecycle from concept to maintenance. My expertise includes client communication, requirements gathering, writing technical specifications, team hiring and leadership, architecture design, coding, MVP development, investor presentations, and ongoing support, monitoring, and bug fixing. I ensure every project is delivered smoothly and exceeds expectations.

I have worked on developing such applications as web, mobile, integration, embedded, and database. The main technologies that I used in my previous projects were Python, SQL, JS, Linux, AWS, Azure, RPI, Arduino, and Software Architecture Design. Methodologies - Scrum, Agile.

My most outstanding qualities include good communication, a love to learn new, the ability to work in a team, problem-solving, responsibility, and adaptability.

Skills**Programming Languages/Technologies**

- Software Architecture Design/UML/Reverse Engineering/ Design Patterns
- SaaS/RIA Research & Development
- Technical Documentation/Architecture Reports/ Proposals/ SRS
- XML/JSON/YAML
- Python 2.7, 3.6-3.10
- JavaScript/TypeScript
- Numpy/Pandas
- HTML/CSS/LESS/Sass
- SQL/T-SQL
- Java
- PHP
- NodeJS

RDBMS

- MySQL
- PostgreSQL

NoSQL

- MongoDB
- Elasticsearch

Virtualization Tools

- Docker
- Kubernetes

Methodologies

- Agile, Scrum
- Pair Programming
- Test Driven, Feature Driven, Behavior Driven Development

Operating Systems

- Microsoft Windows
- CentOS
- Linux Mint/ Debian/ Ubuntu
- macOS

CI/CD**Frameworks/Libraries**

- FastAPI
- Flask
- Django/DRF
- React
- SQLAlchemy
- Numpy/Pandas
- bs4
- Tkinter
- PyOT
- Prometheus
- Grafana
- FastAPI-Amis-Admin
- Pycaret
- SentenceTransformers
- AutoGluon
- Spacy
- Trankit
- N8N
- jQuery
- Angular
- Whisper
- ElevenLabs
- Cromadb
- Langchain
- RAG architecture
- Streamlit
- Chatbot
- Sklearn
- XGBoost

Cloud Providers

- AWS
- Heroku
- Azure

Development Tools

- PyCharm
- IntelliJ IDEA
- Visual Studio Code

	▪ Bitbucket CI/CD ▪ GitHub Actions	▪ Qt Creator ▪ Eclipse
	Hardware ▪ Network technologies ▪ Different technological device	Testing Tools/Libraries ▪ Postman ▪ Pytest ▪ Selenium ▪ Unittest ▪ Sentry
		Versions Control ▪ GitHub ▪ BitBucket ▪ GitLab

Experience

	Mental health chatbot
Project Description:	Chatbot is designed to helped 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:	0.5 years
Project Role:	AI & ML Engineer Back-End Developer
Responsibilities:	▪ Back-end development; ▪ Prompt engineering and model retraining: I designed and tested prompts to generate responses that were as natural, empathetic, and supportive as possible. This helped reduce the frequency of formulaic or inappropriate responses from the model; ▪ Sentiment analysis and context retention: implemented mechanisms for recognizing the user's emotional state, including anxiety and stress, by evaluating text dialogues with the user. Based on this, the bot adapted responses, offering appropriate therapeutic techniques (breathing, grounding, etc.); ▪ Contextual memory: The model retained key elements of past dialogues to build coherent conversations, as in real therapy; ▪ Exercise generation: Using NLP and LLM, the bot suggested personalized therapeutic exercises based on incoming messages and communication history; ▪ NLP component integration: LangChain was used for memory and processing chain management, spacy and tensorflow were used to consume and build models for estimating specific parameters from the user's text and voice query, ElevenLabs were used for voice acting, and LLaMA 3.2 8B was used as the main LLM model hosted in AWS SageMaker; ▪ Fine-tuning LLM model; ▪ Attach memory to the LLM; ▪ Development a simple front-end for the chatbot.
Project Team Size:	3-4 team members
Tools & Technologies:	Python, FastAPI, Whisper, React, ElevenLabs, Llama, Langchain, AWS Bedrock, PostgreSQL, Docker.
	AI system for automating the design processes and development of design documentation
Project Description:	The project is to classifier given by user information according to documented rules.
Domains:	AI & Machine Learning Electronics
Involvement Durations:	0.9 years February 2024 – October 2024

Project Role:	Back-End Developer / AI Engineer
Responsibilities:	▪ Back-End Development; ▪ Constructing RAG system; ▪ API integrations with OpenAI (Azure); ▪ Developing and maintaining API documentation; ▪ Code review.
Project Team Size:	1-3 team members
Tools & Technologies:	Python, FastAPI, Langchain, RAG, OpenAI, Azure.
Project Description:	The Telecommunication platform The project focuses on building a secure and cutting-edge industrial 5G system that leverages the power of the internet for voice communication. This platform will implement end-to-end encryption, robust authentication mechanisms, and advanced call management features to offer a superior communication experience.
Domains:	Telecommunication Siemens
Involvement Durations:	2 years
Project Role:	Back-End Developer, DevOps
Responsibilities:	▪ Designing and implementing; ▪ Developing secure communication protocols; ▪ API integrations; ▪ Application deployment; ▪ Development of microservices; ▪ Implementing Azure infrastructure; ▪ Fixing bugs; ▪ Unit testing; ▪ Code review.
Project Team Size:	45-50 team members
Tools & Technologies:	Python, Bash, Qemu, Debian, Yocto, Vagrant, Ubuntu, k8s, Azure DevOps, Git, Virtualization, Docker, Windows.
Project Description:	AI system for automating the design processes and development of design documentation Develop a machine learning model capable of building a 3D assembly from a list of parts.
Domains:	AI & Machine Learning
Involvement Durations:	0.5 years
Project Role:	Data Scientist Data Analyst ML Engineer
Responsibilities:	▪ Input data analysis; ▪ Dataset creation; ▪ Feature analysis; ▪ ML architecture (model selection, tuning hyperparameters); ▪ Development of strict rules for validation and postpone processes.
Project Team Size:	1-2 team members
Tools & Technologies:	Pandas, Data analysis, sklearn, XGBoost.
Project Description:	AI-Security Platform 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 which is searching for hackers or attacks in the blockchain using ML algorithms.
Domain:	AI & Machine Learning Blockchain Cyvers
Involvement Durations:	2 years
Project Role:	Team Lead, Full-Stack Developer

Responsibilities:	▪ Improving system architecture; ▪ Preparing technical specifications; ▪ Solution architecture; ▪ Code development/Code review; ▪ 3rd Party API integrations; ▪ Writing IaC, preparing GitHub Actions; ▪ ETL data pipeline organization; ▪ Product support and documentation maintenance; ▪ DB schema design/optimization; ▪ Unit testing.
Project Team Size:	13-15 team members
Tools & Technologies:	Python 3, FastAPI, Neo4j, Redis, PostgreSQL, Alembic, SQLAlchemy, Pandas, boto3, Websockets, AWS EC2, AWS ECR, AWS ECS, AWS RDS, AWS Cognito, AWS Lambda, CloudWatch, Terraform, TerraGrunt, Docker, Docker Compose.
Project Description:	Security Control Center Special solution for managing remote devices, unified interface on top access providers to IoT devices (doors, elevators, intercoms, cameras, etc.), Include different roles, roles groups and access functionality for various categories of users for coworking spaces around the world.
Domains:	Security Wework
Involvement Duration:	3 years
Project Role:	Team Lead, Full-Stack Developer
Responsibilities:	▪ Back-end development; ▪ Front-end development; ▪ Integration with 3rd party APIs (Zabbix, S2, etc.); ▪ Implementing new features; ▪ Unit testing; ▪ Development, build and deployment scripts; ▪ Improving system architecture; ▪ Fix bugs; ▪ Code review.
Project Team Size:	6-8 team members
Tools & Technologies:	Python 3, FastAPI, Flask, JavaScript, React, SQLAlchemy, Alembic, Auth0, JWT, Pytest, MySQL, Redis, Kubernetes, Docker, CircleCI.
Project Description:	Solutions for data analyze, visualization, simulations Marketing web application for data analysis and visualization. The solution helped customers to form target groups and optimize upstream campaigns to create added value. Effective multi-channel solutions to sustainably increase customer business success by establishing and consolidating profitable relations.
Domains:	Marketing Schoeber
Involvement Duration:	2 years
Project Role:	Tech Lead, Full-Stack Developer
Responsibilities:	▪ Improving system architecture; ▪ Refactoring existing back-end code; ▪ Implementing new features; ▪ Supporting new sub-project customization; ▪ Data analyst and data visualization for B2B clients.
Project Team Size:	8-10 team members
Tools & Technologies:	Python 3, Flask, SQLAlchemy, Alembic, pytest, PostgreSQL, Nginx, CentOS, Keycloak, JS, TypeScript, ReactJS.

Internal tool for AI experts	
Project Description:	Authoring Tools for Science, Technology, Engineering and Mathematics. Export images and PDFs to LaTeX, DOCX, Overleaf, Markdown, Excel, ChemDraw, and more, with AI-powered document conversion technology. Helping to save time preparing scientific documents with snip.
Domains:	AI OCR Mathpix
Involvement Duration:	0.5 years
Project Role:	Tech Lead, Full-Stack Developer
Responsibilities:	▪ Preparing technical specifications; ▪ Code development; ▪ Unit testing; ▪ Development build and deployment scripts; ▪ Product support and documentation maintenance; ▪ UI/UX improvements; ▪ DB structure optimization; ▪ OCR annotations.
Project Team Size:	2-3 team members
Tools & technologies:	Python 3, Flask, rdkit, pyplot, boto3, PostgreSQL, Aiven, AWS Lambda, AWS EC2, AWS S3, Auth0, Docker, JS, AnnotoriousJS, ReactJS, NodeJS, Webpack, babel, HTML/CSS.
RPi based WIFI sniffer	
Project Description:	Create a WIFI sniffer with RPi, detect mobile phones nearby the sniffer. Automate deploy for ~150 RPi devices installed on vehicles.
Domains:	IoT CodeStryke
Involvement Duration:	0,5 years
Project Role:	Back-End Developer
Responsibilities:	▪ Development of Device Client Software that communicates with a Backend over 4G and with Hardware (Display/GPS Module) and fetches data from the cloud to display and sends data to the cloud backend over REST; ▪ OS configuring; ▪ Bash scripting; ▪ Python scripting; ▪ Working with network protocols, configuring inter-process communication.
Project Team Size:	2-3 team members
Tools & technologies:	Python 3, Raspberry Pi, Debian, Raspbian, Bash, Mender, Docker, 4G AT, APT.
Logistical company API	
Project Description:	Multi-Carrier Shipping solution for Salesforce. Shipping integrations, Shipment tracking, Shipping quotes. API integrations with various carriers around the world via a number of technologies (REST/JSON, REST/XML, SOAP/WSDL, EDI).
Domains:	Logistic Zencraft
Involvement Duration:	2 years
Project Role:	Back-End Developer
Responsibilities:	▪ Maintenance existed API integrations and project structure; ▪ Integration with 3rd party APIs; ▪ Unit testing; ▪ Code development; ▪ Development build and deployment scripts; ▪ Product support and documentation maintenance.
Project Team Size:	6-8 team members
Tools & technologies:	Python 2, webapp2, alembic, pytest, PostgreSQL, Celery, Docker, Heroku, Postman, JSON, XML, SOAP/WSDL, EDI, SFTP.

	Project Description:	CryptoExchange market	
	Domains:	Cryptocurrency Dashnearby	
	Involvement Duration:	1 year	
	Project Role:	Full Stack Developer	
	Responsibilities:	- Integration with multiple coins blockchain; - Code development; - Unit testing; - Development build and deployment scripts; - Product support and documentation maintenance.	
	Project Team Size:	4-6 team members	
	Tools & Technologies:	Python 2, Twisted, Klein, JS, AngularJS, HTML/CSS, Peewee, Bitcoin, Ethereum, Dash, BitcoinCash, MySQL, Nginx.	
	Project Description:	Internet provider	
	Domains:	Telecommunication Tenet	
	Involvement Duration:	3 years	
	Project Role:	NoC Engineer	
	Responsibilities:	- Network management; - Customer support; - Service optimization; - High-speed internet solutions.	
	Project Team Size:	4-6 team members	
	Tools & Technologies:	Python, Bash, SQL, Network tools.	
	Certificates	Machine Learning Hillel IT school, Odesa 	
		Android developer course "Step" Computer academy, Odesa 	
		CCNA course Cisco Academy, Odesa 	
	Education	Master's degree O.S. Popov Odessa National Academy of Telecommunications, Odessa Information Networks faculty. Development of the mobile call network systems	
		Bachelor's degree O.S. Popov Odessa National Academy of Telecommunications, Odessa Information Networks faculty. Development of the mobile call network systems	
	Languages	English: Advanced	
		German: Advanced	

	Ukrainian: Native
	Russian: Native